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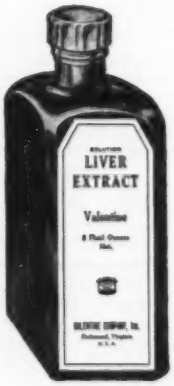

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ADDRESSES AND ORIGINAL ARTICLES

PAROXYSMAL NOCTURNAL HÆMOGLOBINURIA OF THE MARCHIAFAVA TYPE

By J. V. Dacie, M.B., M.R.C.P. Lond.
MEDICAL RESEARCH COUNCIL POST-GRADUATE STUDENT

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PHYSICIAN IN CHARGE AND DIRECTOR OF THE DEPARTMENT; HON. CONSULTING HÆMATOLOGIST, CHRISTIE CANCER HOSPITAL AND HOLT RADIUM INSTITUTE, MANCHESTER

Paroxysmal nocturnal hæmoglobinuria associated with chronic hæmolytic anæmia is a rare condition of great interest. It was first described by Marchiafava and Nazari in 1911 and has since received most attention from Italian writers who have termed it "hæmoglobinuria of the Marchiafava type."

Its characteristic features are :—

(1) An anæmia of a chronic hæmolytic type in which the red cells are often reduced below 2 million per c.mm., reticulocytosis is found over long periods, and nucleated red cells may be seen in the peripheral blood. Jaundice is usually present.

(2) Persistent hæmoglobinæmia.

(3) Hæmoglobinuria which is most severe at night. The specimens passed at night or first thing in the morning are often very dark, whereas those later in the day are of normal colour—although they may give a positive benzidine reaction. At other times there will be only a trace of blood in the morning and none in the afternoon sample. This hæmoglobinuria is intermittent and the free periods often last many weeks. The attacks are not related to exposure to cold.

(4) Persistent hæmosiderinuria, which is detected by the Prussian-blue test, and is notable since it is present even when there is no hæmoglobinuria.

The anæmia shows fluctuations corresponding to the severity of the hæmoglobinuria, and recovery of the blood level is liable to be slow after the hæmoglobinuria has ceased.

Hamburger and Bernstein in 1936 reviewed the clinical features in detail, quoting 22 recorded cases and 2 of their own; Witts (1936) has also mentioned a case and given references to 12 others. It appears that treatment, including splenectomy, has been of little permanent value.

The appearances at autopsy are those characteristic of long-continued excessive intravascular hæmolysis, but little is known about its mechanism. Serological examinations have seldom been done under conditions that would make them of real diagnostic value; consequently retrospective diagnosis is very unreliable, and it is not at all certain that all the reported cases are examples of the same disease.

Investigation of the typical case here described has enabled us to demonstrate a definite abnormality that offers some explanation of the clinical and pathological features.

CASE-HISTORY

A married woman, aged 34, was admitted to another hospital in July, 1933, complaining of anæmia, jaundice, and the passage of "black" urine. Her condition proved refractory to any treatment but she gradually improved and was discharged seven months later. After another six months she was again jaundiced, passed "black" urine, and was in hospital eleven weeks. As before, she slowly recovered and she remained well until June, 1936, when she had her third similar attack and was referred to the Manchester Royal Infirmary. She said that the attacks were sometimes heralded by pain in the right side of the abdomen and the chest; between attacks she was quite well. Her appetite was good, her bowels were regular, and menstruation, which was regular and normal, was unrelated to the "black" urine. Her weight was steady. No member of her family had been similarly affected or had had anæmia; apart from housework she had worked only as a cardroom operative.

No unusual physical signs were found; the spleen was not palpable and the liver not enlarged; the urine (July 3rd, 1936) contained no blood or blood pigment. A blood count showed: red cells, 2,760,000 per c.mm.; hæmoglobin, 72 per cent.; colour-index, 1·30; white cells, 6000 per c.mm. (polymorphonuclears 50·5 per cent., lymphocytes 45·5 per cent., monocytes 4 per cent., eosinophils, basophils, and nucleated red cells absent); aniso- and poikilo-cytosis; platelets moderate in numbers; reticulocytes, 3 per cent. The Wassermann reaction was negative; a van den Bergh test showed an indirect positive reaction and the blood contained 0·6 mg. bilirubin per 100 c.cm. The fragility of the red cells was within the normal range. Fractional gastric analysis showed free acid in all samples with a maximum of 32 units at 2½ hours.

In September, 1936, there was a similar attack, but the urine remained clear until Oct. 3rd when it was dark on three successive mornings, although normal at other times of the day. Spectroscopy showed methæmoglobin, while no red cells could be detected in the urinary deposit. On Oct. 30th the morning urine was again dark and the patient, who felt very weak, was admitted to the Manchester Royal Infirmary. There was anæmia (red cells, 3,070,000; hæmoglobin, 70 per cent.) with reticulocytosis (12·8 per cent.); the blood contained 1·4 mg. bilirubin per 100 c.cm. and spectroscopy of the serum showed bands corresponding to methæmoglobin. The fragility of the red cells by Whitby and Hynes's method was within normal limits. The mean cell volume was 105·7 c. μ and the Price-Jones curve gave a mean red cell diameter of 6·77 μ, with microcytosis 7 per cent. and megalocytosis 0·2 per cent.

From Nov. 3rd to 10th the dark colour of the morning specimen of urine was in striking contrast with the yellow or orange colour of urine passed in the rest of the day, which did not always give a positive reaction with benzidine. The hæmoglobinuria ceased altogether after two weeks. Cystoscopy showed a normal bladder, but there appeared to be slight delay in the phenolsulphonphthalein excretion. Radiograms showed unusually well-defined kidney shadows (? due to hæmosiderosis).

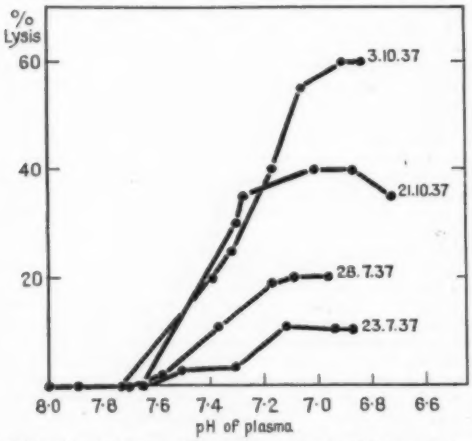
She was readmitted to hospital on May 3rd, 1937, with a similar attack from which she recovered after three weeks. On May 29th morning hæmoglobinuria was again noted and continued for a fortnight. Although the fragility of the red cells was within the normal range, the presence of a slight degree of spherocytosis did not exclude the possibility that the condition was an atypical spherocytic (hæmolytic) jaundice and accordingly splenectomy was done by Mr. Wilson Hey on July 24th. The spleen, which appeared of normal size (120 grammes) and was removed without difficulty, showed hyperplasia of the reticulum cells and some excess of fibrous tissue; the Malpighian bodies were small. Before the splenectomy the red cell fragility had been examined by Dacie and Vaughan's (1938) modification of

Creed's method, and found to be within the normal range.

The patient made a good recovery, although for four days after the operation there was continuous hæmoglobinuria. Hæmatologically, improvement was certainly not dramatic; nevertheless since the operation she has gradually improved and has so far had no further attacks of hæmoglobinuria. Iron has been almost constantly demonstrable in the urinary deposit by the Prussian-blue reaction (so-called hæmosiderinuria). It is not necessarily associated with hæmoglobinuria, for it was present in the day urine, when the hæmoglobinuria was strictly nocturnal, and it was still to be found on Nov. 18th, 1937, although there had been no hæmoglobinuria since the beginning of August. The pigment is probably derived from hæmoglobin which the kidney is constantly excreting in small quantities, and which is precipitated as hæmatin by the acid urine.

SEROLOGICAL INVESTIGATIONS

In pursuing the reason for this hæmoglobinæmia and paroxysmal hæmoglobinuria, we have made



Relationship between *p*H of plasma and autohæmolysis on different dates.

many serological experiments to be reported in detail elsewhere. The cardinal finding has been the occurrence of autohæmolysis in vitro under certain conditions which may be summarised as follows:—

(1) Using whole heparinised or defibrinated venous blood, kept under paraffin, lysis was noticed when the samples were kept at 37° C., and usually occurred within an hour of collection.

(2) The onset was determined by the "venosity" of the blood; lysis did not take place if the sample had been deliberately aerated, and on one occasion the omission of a covering layer of paraffin sufficed to prevent noticeable lysis.

(3) Lysis was observed when the patient's cells, previously washed in physiological saline solution, were added to her own plasma (or serum) but only if the *p*H of the plasma was adjusted to physiological limits (as below) by the addition of M/15 potassium dihydrogen phosphate, N/20 hydrochloric acid, or 0·6 per cent. lactic acid. To illustrate this a series of *p*H-lysis curves obtained on different occasions are shown in the accompanying Figure. It will be noted that lysis was maximal at a *p*H of about 7·0, and completely absent above 7·7. To obtain lysis with the above technique it is therefore imperative to adjust the *p*H to within the physiological range, for the *p*H of plasma may rise to approximately 7·7–7·8 unless precautions are taken to prevent loss of carbon dioxide. No lysis, however, was noticed in the absence of plasma if the cells were suspended in physiological saline solution at a *p*H of 6·9.

(4) Using a suspension of washed red cells in buffered plasma (*p*H 7·1) maximum lysis was obtained when the cell suspension was first cooled to below 5° C. for fifteen minutes and then warmed to 37° C. for 2–3 hours; at most only a trace of lysis was noticed if cooling was omitted. On the other hand, when whole blood was used, preliminary cooling was definitely unnecessary. A possible explanation of this discrepancy is that although the lytic agent present in the plasma ("lysin") is adsorbed by red cells at 37° C. this more readily happens at a lower temperature, the optimum being below 10° C. It may be that during "washing" the lysin previously adsorbed on to the cells is lost in the process, with the result that when they are later added to the plasma at 37° C. the final amount adsorbed by any red cell is insufficient to produce lysis. Our results indicate that the higher the concentration of "lysin" the more easily will this take place at 37° C.

(5) Alterations in *p*H probably largely affect the actual adsorption of lysin by the cells themselves; Osburn (1934) has shown that the effect of *p*H upon the action of hæmolytic complement between the limits involved in our experiment (6·8–8·0) is small enough to be neglected.

(6) The "lysin" itself is thermolabile, for after plasma had been heated to 56° C. for half an hour the addition of complement did not reactivate it; moreover, such plasma added to red cells which had previously been allowed to adsorb lysin proved completely inhibitory to subsequent lysis. The addition of complement to a system containing unheated patient's plasma and red cells did lead to increased lysis.

(7) From our experiments the abnormality responsible for autohæmolysis in this patient with paroxysmal nocturnal hæmoglobinuria seems to be in the red cells themselves. Substitution of normal plasma and serum of the same group (AB) for that of the patient did not prevent lysis. No differences of *p*H or temperature requirements were observed when such plasma was used instead of that of the patient. On the other hand, when "washed" normal cells were added to the patient's plasma and serum no lysis took place.

(8) The titre of the "lysin" is apparently low, the maximum observed being 1 : 3. When plasma and washed cells are used there seems to be an inverse relationship between the ease with which in-vitro autohæmolysis can be demonstrated, and the severity of the in-vivo hæmolysis. With a gradual improvement in our patient's health (a rising hæmoglobin percentage, a falling reticulocyte count, and the absence of hæmoglobinuria) it has been increasingly easy to demonstrate autohæmolysis with an apparent widening of the *p*H-lysis curve. In fact after splenectomy, when for a few days intravascular lysis was rapid enough to produce continuous hæmoglobinuria, the demonstration of lysis using washed cells in vitro was exceedingly difficult. Using whole venous blood this relation is reversed; when our patient was most severely ill, obvious lysis could be seen after 15–30 minutes at 37° C.; but when she was clinically much better only a trace of lysis was observed after three hours at this temperature.

A possible explanation is that the adsorption of the lysin on to red cells at body temperature may vary from time to time, and this would correspond with the clinical fluctuations so typical of this disease. If adsorption takes place readily at 37° C. severe intravascular lysis must inevitably follow (which can be paralleled by keeping whole blood in vitro at 37° C. when lysis readily occurs), with the result that there can be little "free" lysin in the plasma, which in turn probably accounts for the difficulty in demonstrating the lysin by the "washed cells" technique.

This fluctuation in the amount of "free" or unadsorbed lysin is of importance, for serological tests (probably using serum and washed cells) are the most likely to be performed when the patient is clinically at his worst. This is just the time when according to our experience it would be most difficult using this technique to obtain evidence of in-vitro

autohæmolysis and also the time when the *p*H needs the most careful regulation.

DISCUSSION

Donath and Landsteiner in 1902 demonstrated that cold hæmoglobinuria was associated with the presence of an abnormal lysin in the patient's serum; they showed that in order to obtain autohæmolysis in vitro the blood had first to be cooled and then warmed. These observations have since been confirmed and elaborated, and it is now established that preliminary cooling is essential for the union of lysin (amboceptor) and cells, while the subsequent warming is necessary for the action of complement. Mackenzie (1929b) discusses in his important review the maximum temperature at which union of lysin and cells will take place; this was recorded as 20° C. by both Donath and Landsteiner (see Mackenzie 1929b) and by Grafe (1911); Moro and Norda (1909) observed adsorption at 17° C., but the highest temperature noted by Mackenzie himself (1929a) was 12° C.

The behaviour of our patient's blood is very different. Although there is evidence that the lower the temperature the more readily can adsorption be demonstrated, it will take place to some degree at 37° C.; indeed using whole blood autohæmolysis has been observed whenever the blood was examined at this temperature. Clinically, the process in our patient is clearly independent of cooling, and lysis might reasonably be expected to take place at body temperature in vitro.

The rôle of the hydrogen-ion concentration of the serum or plasma in the demonstration of lysis in vitro is particularly important because neglect in its control may result in the complete failure of lysis. As long ago as 1909 van den Bergh, in a case of cold hæmoglobinuria, found that exposure to carbon dioxide aided the adsorption of lysin by the red cells; cooling to 16° C. in an atmosphere of carbon dioxide produced the same result as the more drastic cooling in air. Hannema and Rytma (1922) and Kumagai and Ito (1916–17) confirmed this observation; the latter workers found that "carbon dioxide hæmolysis" disappeared with adsorption of lysin and believed that carbon dioxide facilitated lysis by allowing it to occur at a higher temperature than usual.

Mackenzie (1925), however, was unable to show that carbon dioxide played any part in this phenomenon. The early experiments of Chvostek (1894), in which the application of a ligature to a finger without associated cooling (which is a usual method of performing Ehrlich's test) produced local hæmoglobinæmia, suggest that the action of carbon dioxide in vitro may be applicable to the patient's blood in vivo. The well-known association of vasomotor disturbances, cyanosis, and similar changes, in patients with cold hæmoglobinuria, adds support to this view, since local cyanosis and retarded circulation are associated with a local increase in carbon-dioxide tension.

From our own results it seems clear that carbon-dioxide tension and hydrogen-ion concentration in particular are of critical importance for the production of hæmolysis both in vitro and in vivo; the nocturnal periodicity of the hæmoglobinuria in our patient may possibly be connected with this. At night the respiratory centre is relatively insensitive, with the result that pulmonary ventilation is reduced and there is some rise in carbon-dioxide tension in the blood, and possibly a slight fall in *p*H (see Kleitman 1929). If we may judge from our in-vitro experiments this would result in a slight increase in lysis, perhaps just sufficient to raise the plasma hæmoglobin above the renal threshold for excretion.

REPORTED CASES

Author.	No. of cases.	Serological findings.
Chauffard and Troisier (1908).	1	No report.
Chauffard and Vincent (1909).	1	Slight autolysis in venous blood.
Marchiafava and Nazari (1911).	3	No report.
Van den Bergh (1911).	1	Patient's cells lysed by own serum at 37° C. in the presence of carbon dioxide; also lysed by normal sera (I group isolysins).
Biffis (1915).	5	(*a*), (*b*), (*d*), and (*e*) D.-L.R. negative with or without the addition of complement or carbon dioxide; (*c*) no lysin for normal or the patient's cells.
Giffin (1923).	1	No report.
Panton, Maitland-Jones, and Riddoch (1924)	2	"
Scheel (1925).	1	"
Manini (1927).	3	(*a*) and (*b*) No autolysin demonstrated; (*c*) no report.
Salén (1927).	1	D.-L.R. negative; repeated many times with and without complement.
Enneking (1928).	2	In one of the cases a lysin active at 37° C. was demonstrated.
Barta and Görög (1929).	1	No D.-L. amboceptor demonstrated.
Hitzenberger (1930).	1	D.-L.R. negative.
Bergmark (1931).	1	No report.
Marchiafava (1931).	1	"
Micheli (1931).	1	D.-L.R. repeatedly negative.
Rosenthal (1932).	1	D.-L.R. repeated five times at 9° C., room temperature, and 37° C., with and without the addition of complement. Always negative.
Weir (1933).	1	A slight D.-L.R. once obtained.
Lolli (1933).	1	No report.
Iglauer and Frenreisz (1934).	1	D.-L.R. negative.
Schally (1934–35).	1	D.-L.R. repeatedly negative. ? Slight autohæmolysis whole blood in vitro.
Falkiewicz and Musial (1935).	1	D.-L.R. repeated twice with and without additional complement. Result negative.
Salén (1935).	1	A thermostable autolysin of unusual type demonstrated.
Trestini (1935).	1	D.-L.R. negative.
Hamburger and Bernstein (1936).	2	(*a*) Auto- and iso-lysins were found in the blood only to disappear when the paroxysms were over; (*b*) D.-L. test repeatedly negative.
Witts (1936).	1	No report.
Cain, Cattan, Harrispe, and van der Boijen (1937).	1	No autolysins found; D.-L.R. negative.
Bodley Scott, Robb-Smith, and Scowen (1938).	2	(*a*) D.-L.R. negative, no autohæmolysis at 37° C.; (*b*) D.-L.R. negative.

D.-L.R. = Donath-Landsteiner reaction.

PREVIOUS REPORTS

In the accompanying Table we have collected the serological findings of the published cases of paroxysmal hæmoglobinuria of the Marchiafava type so far as the literature has been available to us. It is difficult to say whether they all represent the same disease since most of the vital evidence is missing.

The reports of Chauffard and Vincent (1909), van den Bergh (1911), Enneking (1928), and Salén (1935) merit special consideration.

Chauffard and Vincent (1909) noted autolysis of their patient's venous blood after keeping it for a few hours at room temperature; with normal blood this was never observed. They suggested that this was an in-vitro demonstration of the "fragility" of the blood.

Van den Bergh's (1911) results were substantially the same as ours. With serum and washed cells autohæmolysis was observed at 37° C., but only in an atmosphere of carbon dioxide; it was not noticeable at room temperature (16° C.) or at 37° C. in the absence of carbon dioxide. Using two different normal sera and his patient's cells, with the first serum lysis was observed at 16° C. and 37° C. only in the presence of carbon dioxide, but with the second serum lysis was obtainable at 16° C. and 37° C. with or without carbon dioxide. It is possible that the latter result may have been due to the normal group isolysins. He concluded that carbon dioxide revealed a diminution in the resistance of the patient's cells to hæmolytic substances in the normal serum, or that of the patient himself, but that this unusual red cell fragility was not manifest in dilute solutions of sodium chloride.

Enneking (1928) described two cases of unusual hæmoglobinuria, with detailed serological findings in one of them. Using washed cells and serum obtained at 37° C. autohæmolysis was observed at room temperature and 37° C., but only after the addition of complement; a greater degree of lysis was noted at 37° C. than at room temperature. The patient's cells were not lysed by normal sera, but the patient's serum did lyse normal cells—the usual finding in cold hæmoglobinuria.

Salén (1935) reported a very remarkable case, and some of his results are not easily explained. He demonstrated the presence of an abnormal lysin capable of acting upon normal cells as well as those of the patient. This lysin was of high titre and was not inactivated by heating to 59° C. for 45 minutes, and complement was apparently unnecessary for its action; he claimed to demonstrate its presence in the urine. Auto-agglutination was a prominent feature.

From these three detailed reports it appears that the autohæmolytic mechanism may not necessarily be the same in all, though it produces a similar clinical picture. This is not surprising, for there is no reason to expect abnormalities of essentially "intrinsic" origin to take the same form in different individuals.

Autohæmolysis may be produced by a serum abnormality such as probably existed in Enneking and Salén's cases; on the other hand, the cells themselves may be to blame, as is probable in our patient. It appears that for some reason the red cells in our patient had become sensitised to a potential lysin present in normal and the patient's own serum. Human sera contain many natural heterolysins against "foreign" (i.e., animal) red cells as well as group-specific isolysins, so that this might be quite possible if the red cells had become antigenically suitable. We can, unfortunately, offer no explanation as to how this sensitisation has arisen.

TREATMENT

On purely empirical grounds the treatment finally employed in this patient was removal of the spleen, and it brought apparent benefit. From our observations, however, it might be expected that improvement would follow intensive treatment with alkalis. It may be argued that in a system so highly buffered as blood it would be difficult to alter significantly the hydrogen-ion concentration using non-toxic doses of alkalis. On the other hand, if the slight changes in acid-base balance which occur at night are responsible for the nocturnal increase in hæmolysis, alkali therapy might well do good.

As our patient is now gradually improving without recurrence of her original symptoms we have not been able to try the effect of alkalis under controlled conditions.

SUMMARY

In a case of paroxysmal nocturnal hæmoglobinuria of the Marchiafava type, autohæmolysis has been demonstrated in vitro and shown to be dependent upon the *p*H of the system. The optimum *p*H for lysis is approximately 7·0–7·2, and it could not be produced at a *p*H greater than 7·8.

Autohæmolysis of whole blood will occur at 37° C. without preliminary chilling.

It is suggested that the patient's red cells are sensitive to a potential lysin present in normal sera. The interaction between the patient's red cells and this lysin is probably responsible for the clinical picture of severe hæmolytic anæmia with nocturnal hæmoglobinuria.

This work was done with the aid of grants from the Medical Research Council and during the tenure of a Medical Research Council scholarship by one of us (J. V. D.).

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ROYAL MEDICAL BENEVOLENT FUND.—At a recent meeting of the committee fourteen annuities and fifty-one grants were awarded, twelve to new applicants. The total amount voted was over £1500. The following are particulars of three cases:—

Widow, aged 86, of M.B., who up to the time of his death in 1938 had been in receipt of a fund annuity of £78, an Epsom pension of £62, and an old-age pension of £26, all of which ceased at his death, leaving his widow with only her old-age pension of £26. Voted a fund grant of £52.

Daughter, aged 67, of M.R.C.S., who since her father's death has supported herself by giving lessons in music and languages. She had to give up her employment and enter hospital where a panhysterectomy was performed last October. Her income during the past 12 months had only been £15 from earnings and £15 from occasional gifts. Only through the kindness of friends who gave her clothing and many meals was she able to manage. Fund voted £31 10*s*. for nursing-home fees and in addition voted £36 for a period of 12 months.

Widow, aged 62, of M.B. Since her husband died in 1918 this lady has supported herself as nurse companion till last December. She is handicapped from getting employment by her age and also by a Dupuytren contraction of her right hand, the operation on which was not successful. Fund voted £26.

Subscriptions and donations are urgently needed and may be sent to the hon. treasurer of the fund, 11, Chandos-street, Cavendish-square, London, W.1.

RUPTURE OF THE SUPRASPINATUS TENDON

By C. H. Gray, F.R.C.S. Eng.
FRACTURE AND ORTHOPÆDIC REGISTRAR TO THE MIDDLESEX HOSPITAL

Rupture of the supraspinatus tendon was first described in 1834 by J. C. Smith, an English anatomist, who reported a series of post-mortem examinations in which the lesion was found. No further interest was taken in the subject until 1912, when Codman observed his first cases, and began a study of the subject which culminated 22 years later in the publication of his book "The Shoulder," a classic monograph in which all the clinical and pathological abnormalities of the supraspinatus tendon were lucidly described. The incidence of rupture of the supraspinatus tendon in elderly cadavera has been investigated by various anatomists, and their figures vary between 17 per cent. and 40 per cent. Evidently the lesion is not rare. Codman, whose careful and protracted study of the shoulder-joint invests his views on this subject with authority, has stated that it is the most common industrial injury causing prolonged disability. The frequency of the lesion as a clinical entity could be determined only by the systematic investigation of a large series of cases, but its serious import is not in doubt.

This subject has not as yet received much attention in this country, and it is hoped therefore that the few cases here recorded may be worthy of attention.

ANATOMY

Relations of the shoulder-joint.—The subscapularis, supraspinatus, and infraspinatus tendons form a continuous sheet of considerable thickness, which envelops the head of the humerus, lying immediately superficial to the capsule of the shoulder-joint. The subacromial bursa is interposed between the tendinous sheet below and the deltoid, acromioclavicular arch, and coracoid process above (Fig. 1). The tendinous sheet or "cuff," as it is called, separates the bursa from the shoulder-joint proper, and there is normally no communication between them. The communications sometimes encountered in the dissecting-room are the result of rupture of the supraspinatus tendon accompanied, as it usually is, by a tear in the floor of the subacromial bursa.

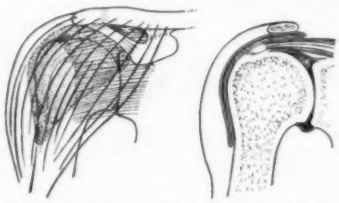

FIG. 1.—Extent and relations of the subacromial bursa (stippled) on the left. The horizontal shading indicates the musculo-tendinous cuff.

Function of the supraspinatus muscle.—For many years it has been stated in anatomical text-books that the supraspinatus is responsible for performing the first few degrees of abduction at the shoulder-joint when bringing the arm away from the side, so that the vertically disposed deltoid may acquire leverage, but actually its rôle is fundamentally important throughout the whole range of abduction. During abduction of the arm by the deltoid, the head of the humerus tends to slip upwards over the glenoid fossa (Fig. 2). The supraspinatus, pulling transversely, holds the articular surfaces firmly together, thus supplying a fulcrum against which the deltoid works. A workman raising a ladder from the ground always has a mate standing with his foot on the bottom rung, so that the end of the ladder will not slip away. The deltoid corresponds to the man raising the ladder, the supraspinatus to the man standing at its foot. In both cases the presence of a fulcrum is essential before adequate leverage can be obtained. Rupture of the supraspinatus tendon might therefore be expected to interfere with abduction of the arm, and this is in fact the case.

Mechanism of elevation.—When the scapula is fixed, the humerus can be passively abducted in the coronal plane through only 90°, and some movement of the scapula over the thoracic wall is therefore necessary in order to accomplish the arc of 180° that is described in bringing the arm from the side of the body into full elevation. The act of elevation in the coronal plane may be analysed into 90° of scapulo-humeral movement, and 90° of scapulo-thoracic movement, but this division is artificial as regards active movements of the normal shoulder-joint; for if a healthy man is observed from behind while he elevates his arms, it will be seen that the two elements of the manœuvre proceed smoothly and simultaneously. It must be remembered that full elevation by abduction is possible only if the humerus is externally rotated. With the humerus internally rotated, abduction cannot be carried beyond the right angle in adults, although in some children almost full elevation is possible. Therefore when testing the range of active or passive abduction it is important to keep the humerus in external rotation. Abduction in this paper means a movement of the humerus from the side of the body in the coronal plane. In practice the coronal and sagittal planes are seldom used, because the shoulder-joint functions more efficiently when the humerus lies in the plane of the scapula—i.e., in a plane drawn at right angles to the glenoid cavity through its vertical diameter.

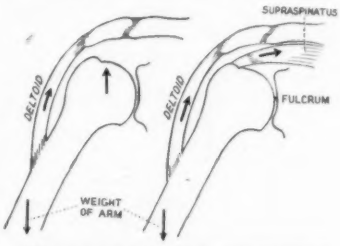

FIG. 2.—Action of the supraspinatus muscle.

PATHOGENESIS

With the joint tissues in a subnormal state either from a toxic disturbance or because of senile degeneration, some trivial muscular effort or a mild contusion of the tendon may be enough to cause the rupture of a few fibres; and in such a case repeated minor injuries may cause more and more fraying until eventually the rupture becomes complete by a process of attrition. On the other hand, a complete rupture may be encountered which has apparently ensued from a single severe injury or violent muscular contraction, the patient being in excellent health. It may seem curious that a healthy tendon should tear across in this way, but the fact remains that ruptures have been known to date from a single and well-remembered accident in healthy individuals who have never before had the slightest trouble with their shoulders; and at operation no evidence of degenerative changes can be found.

Several types of partial rupture may be met with at operation and in post-mortem specimens. A pulpy, œdematous area in the tendon may be found, or there may be fraying of the fibres on the upper or lower surface. In complete tears the proximal portion retracts, leaving a triangular gap bounded at its base by the greater tuberosity, with the distal stub of tendon attached to it, and at the sides by the subscapularis and infraspinatus tendons. The rupture

occurs very close to the supraspinatus facet on the greater tuberosity, and sometimes extends laterally into the subscapularis and infraspinatus tendons. Further, in complete tears the floor of the bursa is usually also torn, and there is a direct communication between the shoulder-joint and the cavity of the bursa.

A partial rupture in an otherwise healthy tendon may heal without operation, or at least may cease to give rise to any disability, but a complete rupture unless sutured causes serious and permanent impairment of function. In chronic cases of either partial or complete rupture grave changes develop in the adjacent structures. The bursal wall becomes thickened and adhesions develop across its cavity. The greater tuberosity becomes eburnated and rounded off, and the tendinous long head of biceps may become frayed and eventually rupture. There is only a little erosion of articular cartilage and practically no osteophyte formation, although this is the condition in the shoulder which corresponds to osteo-arthritis in other joints.

CLINICAL FEATURES

The lesions are seen most commonly in middle-aged labouring men. Complete and partial ruptures resemble one another—their signs differ in degree rather than kind.

Complete rupture.—A history of injury is sometimes obtainable. The patient may have fallen on to his shoulder, or he may have ruptured the tendon by muscular violence—e.g., while carrying a weighty object in one hand the patient stumbles and suddenly elevates this arm in an effort to maintain his balance. If the rupture occurred by attrition there may be no history of injury. Acute ruptures are followed by severe pain, coming on soon afterwards, due to muscle spasm and to distension of the bursa with synovial fluid and blood. This pain passes off after a few days and the joint then settles down into a condition of chronic disability, presenting the following clinical features:—

(1) The joint is painful after use and often also at night. The patient frequently complains that he cannot sleep on the affected side. In addition, pain referred to the insertion of the deltoid is a curiously constant symptom.

(2) Active abduction is limited, usually to 50° or 60°, and it cannot be maintained against the slightest pressure. This abduction is obtained by scapulo-thoracic movement only; there is no scapulo-humeral movement. It has been stated that in cases of complete rupture there is reversal of the scapulo-humeral rhythm—i.e., that scapulo-thoracic movement is dissociated from scapulo-humeral movement, and precedes it during the upward and downward excursions of the humerus in the coronal plane. This is certainly true after partial rupture (see below), but when the tear is complete, the range of active abduction is so limited that only the first phase of the reversal can be observed.

(3) The deltoid can be felt to contract strongly, and this excludes circumflex palsy from the differential diagnosis.

(4) Passive abduction is possible through a normal, or only slightly decreased, range. Stiffness is not the cause of the disability.

(5) The patient winces as the humerus, during passive abduction, passes the right-angle position—i.e., as the greater tuberosity moves under the acromion process. Once past the right angle the pain disappears, only to return as the arm, when being lowered, reaches the same point.

The wince at 90°, and the weak and limited active abduction, although the deltoid is not paralysed and there are no adhesions to limit movement, are the salient features of the syndrome. On further examination there is wasting in the supraspinatus fossa, and sometimes the gap in the tendon is palpable. There is always a tender spot over the tendon.

Partial rupture.—The clinical features are similar to those of complete rupture but in a lesser degree. There is a wince at 90° during passive abduction of the arm, a tender spot is found over the tendon, and there is some loss of power. Full active elevation of the arm may be possible, but not against any appreciable resistance. In addition, the scapulo-humeral rhythm is disturbed. The scapulo-humeral and scapulo-thoracic movements now take place separately, as follows:—

Going up	0°– 90°	scapulo-thoracic
	90°–180°	scapulo-humeral
Coming down	180°– 90°	scapulo-thoracic
	90°– 0°	scapulo-humeral

The severity of the disability presumably depends on the degree of the rupture, and it is frequently difficult or impossible to distinguish complete from partial ruptures.

TREATMENT

Complete ruptures urgently demand operation. Delay may result in so much retraction and such severe degenerative changes that the tear cannot be sutured. In cases of partial rupture the extent of the tear and its capacity for surgical repair must be assessed from the clinical findings. The following is an account of Codman's operation:—

The patient lies on his back (Fig. 3). A sandbag is placed under the injured shoulder and another under the buttock on the same side, so that the patient's body is turned slightly away from the surgeon,

FIG. 3.—Position of the patient on the operating table. Right: The line of the skin incision.

who stands on the side to be operated upon. The sandbag under the shoulder serves to push the head of the humerus forwards and the arm hangs downwards over the side of the table. A straight incision is made vertically downwards in front of the shoulder from the acromioclavicular joint over the greater tuberosity. The deltoid is split in the line of the skin incision, and the roof of the subacromial bursa comes into view. The bursa is then opened and its floor exposed. In cases of complete rupture, the floor will contain an aperture leading directly into the shoulder-joint. This aperture is enlarged and the ruptured tendon examined (Fig. 4). By rotating the humerus the subscapularis and infraspinatus tendons may also be brought into view. After freshening the ends, the retraced proximal portion is drawn down and sutured with No. 10 silk to the stub on the greater tuberosity, or, if this is too small, to the bone itself. The deltoid is sutured with catgut and the wound closed. Living sutures of fascia lata may be used instead of silk to repair the tendon.

The arm is supported on a pillow for four days and then active movements of the shoulder are begun. Strain on the sutured tendon is avoided during the first fortnight by performing all exercises in the stooping position (swinging exercises).

In partial ruptures the floor of the bursa must be incised in order to display the tendons. If there is any perforation it is closed, but if only frayed or œdematous areas are found they should be left alone. If the bursa is inflamed it may justifiably be excised,

because this frequently relieves the patient of his pain.

CASE 1.—A sailor, aged 60, attended Middlesex Hospital in February, 1937, having injured his left shoulder six months previously, when he fell forwards on to his left hand. Since then had complained of weakness of the shoulder and pain over the greater tuberosity and over the insertion of the deltoid.

On examination.—Active abduction was possible to beyond the right angle, but not against slight resistance. Passive movements were full and accompanied by a wince at 90°. Deltoid acting; wasting in supraspinous fossa. X ray examination negative. Diagnosis: complete rupture of supraspinatus tendon.

Operation (Feb. 25th).—A complete tear was found with wide retraction of the ends, which were friable. Repair was impossible. The greater tuberosity was found to be flattened and the articular cartilage nearby eroded. The walls of the bursa were thickened and its cavity partly obliterated by adhesions. Nothing was done.

Result.—The pain and weakness have persisted.

CASE 2.—A carpenter, aged 66, attended Middlesex Hospital in October, 1937, complaining of pain and weakness of the right shoulder of three weeks' duration. There was no history of injury. The pain was felt principally over the belly of the deltoid.

On examination.—Active abduction to 70°, but he could not maintain this against slight pressure. Passive movements almost full, with a wince at 90°. Deltoid acting. Tenderness in front of greater tuberosity. X ray examination negative. Diagnosis: complete tear of supraspinatus tendon.

Operation (Nov. 2nd).—The walls of the bursa were inflamed, and in its floor was an aperture leading directly into the shoulder-joint. There was a complete tear of the supraspinatus tendon, which did not appear to be degenerate. The tendon was sutured with No. 10 silk. Swinging exercises began after four days, active abduction after two weeks.

Result.—A month later he had regained full active abduction and almost full power.

CASE 3.—A painter, aged 26, attended Middlesex Hospital in September, 1937, complaining of pain and weakness of the left shoulder, dating from a fall six weeks previously. The symptoms and signs were those of a complete rupture. He had been treated with physiotherapy but without relief. In view of his age (supraspinatus rupture is rare in the young) a cautious attitude was adopted, and operation was not advised until twelve weeks had elapsed since the accident. It was refused.

Result.—He has shown no improvement and is quite unable to work, although it is now four months since he fell.

THE SYNDROME ASSOCIATED WITH FRACTURES

The difficulties that arise in the clinical differentiation of complete from partial ruptures have already been mentioned. The problem is rendered still more complex by the not infrequent occurrence of the supraspinatus syndrome during recovery from injuries of the shoulder-joint that have not caused any rupture, partial or complete, of the supraspinatus tendon.

This diagnostic dilemma is met with from time to time in cases of fracture near the shoulder-joint. A series of 57 of these fractures was observed in order to determine the frequency of the syndrome, and if possible to evaluate its significance in these circumstances.

The series included:—

(1) 23 abduction fractures of the surgical neck of the humerus.

(2) 12 avulsion fractures of the greater tuberosity. Of these, 11 were fractures without displacement; displacement was present in the remaining case.

(3) 9 fissured fractures of the greater tuberosity.

(4) 6 adduction fractures of the surgical neck of the humerus.

(5) 6 fissured fractures of the surgical neck of the humerus.

(6) 1 fracture of the coracoid process.

The symptoms and signs of supraspinatus rupture were observed in 8 of these patients. The single case in which there was avulsion with considerable displacement of the supraspinatus facet from the greater tuberosity was one of these. This injury

FIG. 4.—A complete rupture exposed by enlarging the hole in the floor of the subacromial bursa, the edges of which are shown drawn aside by the retractor. The crescentic edge of the torn tendon is well shown, and the long head of the biceps appears on the left-hand side.

will be considered first because it is, of course, equivalent to a complete rupture of the supraspinatus tendon. The remaining 7 cases will then be described.

Avulsion of the supraspinatus facet is often associated with an anterior dislocation of the shoulder, and when the dislocation is reduced the separated fragment of bone nearly always falls back into place and stays there. Occasionally the fragment is drawn up under the acromion process and the resulting disability is that of a ruptured supraspinatus tendon. In these cases the bursa preserves its integrity, because it retracts en bloc with the tendon. Manipulative reduction of the small fragment is of course impossible, but usually the fractured surfaces can be brought into apposition by placing the arm on an abduction splint, on which it is kept until the patient can actively raise the arm from the splint. Two or three months will usually have elapsed before this is possible. If this method fails, the fragment of bone should be excised and the tendon sewn back to the greater tuberosity. (To peg or suture the separated facet to the greater tuberosity might appear to be the better course, but in practice this may lead to the formation of a small excrescence of new bone, which grates painfully on the acromion during abduction at the shoulder.)

CASE 4.—A housewife, aged 52, was seen at Middlesex Hospital in July, 1937, with a subcoracoid dislocation of the right shoulder. The supraspinatus facet was avulsed from the greater tuberosity. After reduction of the dislocation X ray examination showed that the supraspinatus facet had been pulled up under the acromion process.

Operation (two weeks later).—The facet was sutured back into place. Immediately before operation she had the symptoms and signs of a complete rupture of the supraspinatus. Active abduction was possible through only 10°.

Result.—Improvement has been slow. Two months after operation she could actively abduct to 100°, and she is still slowly improving.

CASE 5.—A typist, aged 22, attended Middlesex Hospital in October, 1937, having fallen and injured her right shoulder on the previous day. X ray examination showed a small chip of bone avulsed from the supraspinatus facet on the greater tuberosity.

On examination.—She presented the signs and symptoms of a complete rupture of the supraspinatus tendon. Active abduction was possible only to 30°. The joint was treated by active mobilisation.

Result.—The original disability persisted for one week, when she began a rapid recovery, which was complete after one month.

CASE 6.—A shopkeeper, aged 28, attended Middlesex Hospital in October, 1937, having been knocked down in the street on the same day.

On examination.—The shoulder was very tender and irritable. Movement was almost impossible. X ray examination showed an avulsion fracture of the greater tuberosity without displacement. That night and on the succeeding day he had severe pain which gradually settled down. Active movements of the shoulder-joint, under supervision in the massage department, were prescribed.

Result.—One week later the syndrome of complete rupture was present. It persisted for three weeks, then improvement set in and the shoulder was normal within two months.

CASE 7.—A commercial traveller, aged 51, attended Middlesex Hospital in December, 1936, having fallen in the street that morning and injured his left shoulder. X ray examination showed an abduction fracture of the surgical neck of the left humerus. The fracture was reduced and immobilised with the arm at the side for two weeks; then active movements were begun. After seven weeks, passive movement of the shoulder was possible through an almost normal range, the deltoid contracted strongly, but active abduction to 50° only was present and this position could not be maintained against the slightest pressure. During passive movements there was a wince at 90°. A diagnosis of rupture of the supraspinatus tendon was made.

Operation (Feb. 19th).—The bursa and the supraspinatus tendon appeared to be perfectly normal. Nothing was done.

Result.—Five months later he had made a complete recovery.

CASE 8.—A housewife, aged 37, attended Middlesex Hospital in October, 1937, having fallen and injured her left shoulder. X ray examination showed a fissured fracture of the greater tuberosity. Active movements were begun at once. The signs and symptoms of a ruptured supraspinatus tendon developed and persisted for seven weeks, at the end of which time an operation was performed.

Operation (Dec. 1st).—The walls of the bursa were thickened, its lining soggy and reddened. The supraspinatus tendon was dark red, and when touched with a forceps seemed to be almost friable, in strong contrast to the normal elastic consistency. A film of granulation tissue was creeping over the insertion of the infraspinatus, but apart from this the other tendons were unaffected. Nothing was done.

It is still too early to assess the progress of this case.

CASE 9.—A housewife, aged 64, fell on to her right shoulder in July, 1937, was seen at Middlesex Hospital seven weeks later complaining of persistent pain in the shoulder. She was tender over the supraspinatus tendon. Active and passive movements were full, but during the latter there was a wince at 90°. Active abduction against moderate resistance was impossible. X ray examination showed a fracture of the coracoid process united in good position. It was thought that excision of the subacromial bursa would relieve her pain.

Operation (Oct. 26th).—The bursa showed the changes of chronic inflammation. Its cavity was almost obliterated by adhesions and its walls were adherent to the surrounding structures. The supraspinatus tendon was frayed and degenerate on its upper surface over an area the size of a halfpenny, about half an inch from the greater tuberosity. The tendon was not perforated. The major portion of the bursa was excised.

Result.—Pain relieved.

CASE 10.—A bricklayer, aged 59, attended Middlesex Hospital in July, 1937, having injured his left shoulder in a fall that morning. The shoulder was painful and irritable. X ray examination revealed a minute fissure in the greater tuberosity of the humerus. Active movements were begun at once. He made slow progress, and after eight weeks a manipulation of the shoulder was performed. A full range of movement was easily obtained. One week later a tentative diagnosis of partial rupture of the supraspinatus tendon was made, but he was anxious to return to work. He did so, but had to give it up after four days because of the pain. The shoulder became weaker.

Operation (Oct. 13th).—The bursa showed the changes of subacute inflammation. In its floor there was an aperture leading directly into the shoulder-joint. The supraspinatus tendon was completely torn. The proximal end had retracted under the acromion process. An attempt was made to draw it down, but it was too friable. The bursa was excised.

Result.—His pain has been relieved, but the range of movement has not been improved.

CASE 11.—A manageress, aged 56, attended Middlesex Hospital in January, 1937, with an abduction fracture of the surgical neck of the humerus. The fracture was impacted in good position, and active movements were begun at once. After six weeks she presented the syndrome of a ruptured supraspinatus, and these signs and symptoms persisted. Operation was refused. Six months later she hade made no improvement. The shoulder was painful and active abduction was possible only to 30°, passive abduction to 100°.

Comments.—Cases 5 and 6 after presenting the classical syndrome of complete rupture, with very serious loss of power and movement, recovered so rapidly and perfectly that clearly there could have been no rupture, either partial or complete. In each there was a minimal amount of bony damage near the insertion of the supraspinatus tendon, and possibly the tendon itself had been contused. Evidently, then, the syndrome of complete rupture may appear from reflex inhibition of the supraspinatus muscle due to a contusion of the tendon, or to trivial bony damage near its insertion, with no displacement. The operation notes on the following case, which was not included in the series of fractures, support this view.

CASE 12.—An engineering apprentice, aged 21, attended Middlesex Hospital in April, 1937, having injured his right shoulder in a fall a few days previously.

On examination.—All the signs and symptoms of complete rupture of the supraspinatus tendon were present. X ray examination was negative. Three weeks later his clinical condition was unchanged, and he suffered considerable pain after attempts to use the arm. An exploratory operation was therefore decided upon.

Operation (May 15th).—The lining membrane of the bursa was reddened and slightly thickened. In the supraspinatus tendon, about half an inch from its insertion, there was a dark patch of soft consistency and about half an inch in diameter. It was evidently a bruise. Nothing was done.

Result.—The shoulder had fully recovered a month later.

The remaining cases may be considered seriatim. Case 7 at the most could only have had a contusion of the tendon, yet it was three months before he started to recover, seven months before he was cured. Case 8 had a severe injury to the tendon, which at operation gave the impression that it would tear across with very slight provocation. Case 9 had a partial rupture that apparently is not going to cause much trouble. The history in Case 10 suggests that he had a partial rupture that eventually became complete. Case 11 had presumably a complete rupture, since she has shown no improvement over a period of six months.

APPLICATION TO TREATMENT

These cases, taken together, raise the following questions:—

(1) How can the cases of simple contusion that are going to recover be distinguished from more serious injuries?

(2) Can anything be done to aid recovery in a severely damaged tendon—e.g., Case 8—and to prevent subsequent rupture?

(3) What are the indications for operation?

If the supraspinatus syndrome had a unique significance much less difficulty would arise. Unfortunately the clinical picture is ambiguous. As we have seen, the same symptoms and signs may be produced by various conditions of the supraspinatus tendon, ranging from the most trivial contusion to complete rupture, and presumably inhibition of the supraspinatus muscle may give rise to the same disability. Apart from direct inspection of the tendon through an operation wound there is no certain method of identifying the pathological basis on which the clinical syndrome rests. Some suggestions for a clinical evaluation of the degree of injury may be helpful.

In middle-aged labouring men, where the syndrome of rupture is present after the acute reaction to the injury has settled down, operation should not be delayed. Nearly all the cases of complete rupture that have been recorded by Codman and others were in patients of this type, and Codman's views on the frequency of the lesion cannot be lightly set aside. In this type of patient, then, the diagnosis of ruptured supraspinatus is a likely one, and operation may be strongly urged.

In younger patients, and especially those employed in sedentary occupations, rupture is unlikely, and a conservative attitude should be adopted, the patient being carefully observed during the first month after the injury. The appearance of signs of commencing recovery during this period—e.g., Cases 5 and 6—will of course point the way to a further period of waiting, while the recovering muscle is assisted by suitable exercises and by electrical stimulation. If, however, there is no improvement whatever—e.g., Case 8—it is probable that serious damage has been done, which not only renders the tendon incapable of work, but exposes it to the risk of subsequent rupture. It seems reasonable then to rest the tendon for a time, and this can be done by placing the shoulder in the best position, with the arm on an abduction splint, for a further period of one month. Persistence of the disability would then call for an exploratory operation. The operation is easy to perform, it is not dangerous, can be done under local anæsthesia, causes very little pain, and requires a stay in hospital of only four days; and in the present state of our knowledge it is the only means in doubtful cases of being sure that a lesion which is capable of repair but in which delay may be costly is not being missed.

SUMMARY

The pathology and treatment of rupture of the supraspinatus tendon is discussed. The syndrome characteristically associated with this lesion is described; its salient feature is limitation of active abduction.

This syndrome is often seen when little or no damage has been done to the tendon, and diagnosis is therefore extremely difficult. Exploratory operation is recommended in cases where the syndrome persists after an adequate period of conservative treatment.

Injuries to the supraspinatus tendon in association with fractures around the shoulder-joint are described.

I wish to express my gratitude to those members of the surgical staff of the Middlesex Hospital who have kindly assisted me in the preparation of this paper and allowed me to report their cases.

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TREATMENT OF CERTAIN JOINT LESIONS BY INJECTION OF LACTIC ACID

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Recurrent Synovitis and Traumatic Arthritis

Joint injuries are responsible for much chronic disability and they have two sequelæ that stand out as peculiarly unresponsive: (1) recurrent synovitis culminating in lax joint, and (2) traumatic arthritis and peri-arthritis. The symptoms of these two classes differ considerably: instability or abnormal mobility is the chief clinical feature of the former, while limitation of movement characterises the latter. This difference, however, may possibly be symptomatic rather than primary; the manner in which a joint reacts to injury depends not only on the nature of the trauma but also on the structural character of the joint itself. Thus recurrent synovitis with resulting laxity is familiar in joints that depend mainly on the integrity of ligaments and muscular structures (shoulder, knee, and ankle); while traumatic arthritis is more commonly seen in those whose stability derives from the strength of their bony articulation (hip and elbow).

In cases of either group there is often a history of inadequate or imperfect treatment of the primary injury, and the patient does not reach the orthopædic surgeon until the condition is well established. In this paper I endeavour to outline a method of treatment that seems to deserve further trial. It is based on observations on the synovial fluid.

CHEMICAL CHANGES IN SYNOVIAL FLUID

Though the serocytological changes in the synovial fluid that follow injury and synovitis have been

fully described by pathologists, less attention has been directed to physiochemical alterations in the synovia. Stirling's demonstration (1932) that the hydrogen-ion content of the primary hæmatoma around a fracture changes from alkaline to strongly acid opened a fresh field for investigation. It was assumed that this acidification was a physiological mechanism directed to solution of the bone calcium to allow of tissue regeneration; but examination of simple hæmatomas not associated with fracture, and of pus in certain conditions, led me to suggest that the acidity acted as an excitant of polymorphonuclear leucocytosis and later of local mesoblastic proliferation (Waugh 1936). Observations were then made on the *p*H of a large number of joints.

(*a*) *Normal joints.*—It was difficult to obtain accurate information about the *p*H in normal joints, since any joint opened by operation might be assumed to be in some respect pathological. Accordingly I examined the joints of hares and rabbits within a short time of being killed by shooting; and I also had a chance to examine the synovial fluid of the ankle-joint in two cases of amputation for distant injury. In all of these the synovia gave a *p*H of around 7·4—i.e., of the same alkalinity as normal blood. (It is noteworthy that twelve hours after death the joint contents are definitely acid, averaging *p*H 6·6.)

(*b*) *Traumatic effusions.*—Observations on twenty cases of traumatic effusion are shown in Table I.

TABLE I

Joint.	Cases.	Average *p*H at—			
		24 hrs.	48 hrs.	3 days.	7 days.
Knee	9	5·8	6·0	6·8	7·8
Ankle	6	5·6	6·0	6·5	7·8
Elbow	3	5·8	6·0	6·7	7·8
Shoulder ..	2	5·4	5·8	6·2	7·4
Average *p*H for all joints ..	20	5·65	5·95	6·55	7·7

From these it was concluded that synovial excess following injury becomes acid in the same way as does blood in a hæmatoma. This primary acidity is not so great however as in the fracture hæmatoma, and does not persist so long; nor does the secondary alkalinity reach the high degrees found in the later days of a fracture hæmatoma. The acidity is due, in part at least, to the presence of lactic acid; for the synovial fluid responds to both the Hopkins and the Uffelman tests for this acid. The fact that it is dextro-rotatory on polarisation identifies it with sarcolactic acid which occurs as a fatigue product following muscular action (Howell 1919). It seems reasonable to suppose that the acid is derived from local tissue-cell damage and degeneration.

CLINICAL APPLICATION

The above observations lent support to the theory that the development of acidity was a physiological response to trauma, designed to excite local leucocytosis and repair, and I endeavoured to imitate this physiological reaction in the treatment of lesser joint injuries which had failed to benefit from ordinary therapeutic measures. At first I used a solution of lactic acid alone, but as this caused considerable pain a solution of Novocain acidified to *p*H 5 with lactic acid was adopted. This solution was injected within the capsule of the joint, which was then moved to its full range in all directions; the limb was thereafter immobilised in plaster for a fortnight, followed by Elastoplast support till function had been regained. During the period of immobilisation the usual orthopædic exercises for maintaining muscular tone were employed.

TABLE II

SYNOPSIS OF TRAUMATIC CASES TREATED

Joint affected.	Clinical condition.	Cases.	Result.
Knee.	Lax joint.	4	Functional recovery complete.
"	Traumatic (mono-articular) arthritis.	2	Functional recovery complete, with disappearance of crepitation sounds.
Shoulder.	Lax joint with recurrent sub-luxation.	2	Full functional activity. No recurrence of sub-luxation since injection.
Elbow.	Arthritis and peri-articular thickening; fibrous ankylosis.	3	Full functional activity; 85 per cent. of normal range of movement.

NATURE OF CASES TREATED

Table II summarises eleven cases treated in 1936, all of which recovered full functional use of the damaged joint and resumed their normal activities. At first, cases of weak joint following sprain, with laxity of ligaments, recurrent synovitis, and insecurity of function, were treated; among athletes and footballers these conditions are extremely crippling, and in various trades such as coal-mining they cause much economic disability. Later, cases of traumatic arthritis were included with equally satisfactory results; in them the injection was made around as well as into the capsule. The amount of solution used was 2 c.cm. for elbow- and ankle-joint cases, and 4 c.cm. for knee- and shoulder-joint cases; only the cases treated in the year 1936 are included (though I have since treated many others), and the column headed "result" presents the condition as revealed at examination twelve months or more after injection.

In connexion with the treatment two points should be emphasised: (1) The cases treated were those of severe disablement which had resisted various forms of treatment, and until further biochemical and pathological investigation has been made the method should be reserved for such cases. (2) In making the injection the same meticulous adherence to the principles of aseptic technique must be exercised as obtains for the operation of arthrotomy. For this reason, and because immobilisation and orthopædic exercises are essential in after-treatment and part of the technique, all the cases have been treated in hospital and mainly as in-patients.

Two cases of the series may be detailed:—

1. P. J.—Apprentice plater. Strained his knee in February, 1935. Three recurrences of synovitis, last on Oct. 31st, 1935. Diagnosis (Nov. 2nd, 1935): recurrent internal lateral ligament strain. Synovial fluid on same day, *p*H 6·8; on Nov. 15th, = *p*H 7·8; injection on Nov. 15th. On Feb. 2nd, 1936, walking normally; review on Dec. 23rd, 1936: condition of joint normal, had played cricket and football in 1936 as well as performing his shipyard work; no recurrence of sypovitis.

2. F. J.—Coal-hewer. On Jan 19th, 1936, had a severe blow on the head of the tibia, with the knee bent; six weeks in hospital; seen on April 4th. Complaint of knee wobbling and giving way on walking downhill. Synovial effusion; undue lateral and antero-

posterior mobility. Diagnosis: stretched posterior crucial ligament with laxity of all joint structures. Synovial fluid on April 6th, *p*H 7·8. Lactic acid injection to joint; plaster splint for six weeks, followed by elastoplast bandage for eight weeks. Review on July 16th, 1937: no synovial effusion; walks and runs without much difficulty. He began light work on Nov. 15th, 1936, and resumed full work in February, 1937, hewing coal in 4 ft. seam; "no difficulty."

This was perhaps the most gratifying result in the series, for it had seemed likely that the man would be permanently incapacitated from following his employment. No doubt the long period of rest and graduated exercise was an important factor in the recovery; but in this connexion one may speculate as to whether the trauma attendant on manipulation of joints by orthopædic surgeons and by osteopaths in similar cases may not provoke a local acidification of the joint content and the reaction of repair.

Non-traumatic Hypertrophic Arthritis

This apparent success in the treatment of traumatic arthritis led me to try the method in cases of poly-articular (rheumatoid) arthritis where the disease was no longer active but had left deformity and dys-function. It was first desirable to determine the *p*H of the synovial fluid in acute rheumatic synovitis, as well as in chronic rheumatoid arthritis. Five cases of acute synovitis of bacterial origin were aspirated daily from the second to the seventh day of the disease; up to the fifth day these returned a faintly acid reaction, averaging *p*H 6·6; by the seventh day the effusion, if present, was definitely alkaline. In the rheumatoid cases absence of free synovial fluid in appreciable amount made exact estimation impossible; some information was, however, obtained by injecting distilled water (*p*H 7 = neutral) into the joint and recovering it by aspiration. In ten cases the dilute synovial return gave the surprisingly alkaline reading of *p*H 8 and over; and the actual *p*H of the joint content must therefore be considerably higher. This may be an important factor in the pathology of the joint changes in this disease.

Only five cases in this second series have been treated. All have derived much benefit, but the result in one is so gratifying that I am tempted to relate it more fully.

Attending the massage clinic was a woman of 29 who had had rheumatoid arthritis for seven years, being condemned to a bath-chair existence for the last three of them. The usual methods of treatment had been employed by the physicians with enough success to make it probable that the disease process was no longer active. This patient had observed the improvement in traumatic cases under treatment in the department, and begged me to try it on her hip-joints. The state of these joints seemed permanently hopeless. The right hip was ankylosed at an angle of 110° with passive movement through 5° only. The left hip had a range of about 15°. There was no evidence of osteo-arthritis but there was much peri-articular thickening; the knees had little diminution of range of movement, but constant crepitation, palpable and audible, was present in both; all the small joints were extensively affected.

In January, 1936, 15 c.cm. of lactic acid was injected into and around each hip-joint, all adhesions were broken down, and full range of movement was obtained. After three weeks' rest in bed, massage and exercises were instituted, and with great perseverance the whole activity of the limbs at the hip-joints was regained. By June, 1936, she was able to walk upright and continued to do so for over a year. In September, 1937, she asked if the knees could be treated; accordingly on Sept. 28th one knee, the right, was treated and the patient instructed to continue movements but refrain from weight-bearing on the limb for eight weeks. Examination on Jan. 3rd, 1938, showed full range of movement at the hip-joints, without crepitation or pain. The right knee had a complete range of movement; the thickening had much diminished, and there were no crepitation sounds. The left knee had not been treated and was unchanged. She is walking well, without pain in the right knee, though the limb is still weak from poor muscular development. The rheumatoid condition in the untreated left knee is unaltered and serves as a useful criterion of the improvement effected. I propose to treat it shortly.

In the other four cases the disease has been treated in the knee-joint. Three of these patients have regained use of the joint; in the fourth the treatment has been interrupted and the deformity is tending to recur. The number of cases in this series is too small to allow of conclusions as to the value of lactic acid injections in treating arthritic deformity. The effects of rheumatoid arthritis are so baffling however that I report my initial successes in the hope that surgeons with more opportunity of treating such cases may investigate the possibilities of this form of therapy.

Summary

1. Normal synovial secretion has the same hydrogen-ion content as blood:

2. Effusions into joints show acidity for three days, changing to alkalinity by the seventh day.

3. Injection of a solution of lactic acid with novocain restored functional activity in cases of traumatic arthritis.

4. The synovial fluid in rheumatoid arthritis shows abnormal alkalinity.

5. In this disease the possibility of restoring function by acid injection deserves further investigation.

6. At present this method should be reserved for cases showing severe disorganisation of joints.

NOTE ON SOLUTION EMPLOYED

The formula to produce an acidity of *p*H 5 is given by Messrs. Bayer as follows:—

Novocain—HCl	2·0 g.
NaCl..	0·5 g.
N/5 lactic acid	0·2 c.cm.
Water to	100 c.cm.

There is so much variability in *p*H value in the various commercial procain preparations that it is advisable to use novocain, which is constant in reaction. For the estimation of *p*H I have employed the Capillator outfit manufactured by British Drug Houses Ltd.; this excellent colorimetric outfit has greatly lessened the difficulty of carrying out such examinations and can be confidently recommended to those who have not a biochemical laboratory available.

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AN INVESTIGATION OF A CASE OF TYPHUS FEVER

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The present case of typhus fever is remarkable for having been acquired in England, and not from direct contact with a patient.

CASE REPORT

History.—A man of 48, employed in a sack warehouse, had been healthy except for dysentery in the war, at which period he had been inoculated frequently, presumably with anti-typhoid vaccine.

On Nov. 8th, 1937, he went to work feeling well but at midday was shivering, his limbs ached, and he vomited. He managed to get home at 5 P.M. but then "lost the use of his limbs and collapsed." On the following days he felt very ill, with an intermittent headache and constipation.

On Nov. 14th, the 7th day of his illness, he was admitted to Ham Green Hospital, Bristol, as a case of suspected typhoid fever. He seemed excited and felt very bad but had no definite symptoms. His temperature was 102° F., pulse 114, and respirations 26. His tongue was very dry and covered with brown fur, his conjunctivæ were injected, and there was slight basal congestion. His pupils were normal; there was no enlargement of the spleen or distension of the abdomen; and the reflexes were normal. No odour from the skin could be detected then or later. Scattered over his trunk was a sparse eruption of discrete rose spots, which could be obliterated on pressure and were rather larger than those of paratyphoid B. Next day the eruption was much more profuse and appeared on the thighs and upper arms, and for the next three days spots came out in crops, leaving some mottling when they faded. On Nov. 15th numerous petechiæ appeared, mostly on the back but also on the thighs and arms, and he was extremely tender on pressure in his calves. There was no tenderness of the bones and no pain in the legs unless the muscles were handled. The tenderness began to go off gradually next day and the rash slowly faded after Nov. 18th, the 11th day of illness. His temperature fell by a rapid lysis on the 12th and 13th days, but oscillated slightly until the end of the 3rd week. There were considerable morning remissions, such as are seen in mild cases of typhus, and temporary falls followed injections of S.U.P. on Nov. 14th and 17th. Once his temperature had fallen his tongue cleared, his appetite returned, and he improved rapidly.

The rash suggested cerebro-spinal fever but there was no evidence of meningeal involvement, and the marked neuritis in his legs led us to consider typhus on the day after admission, and to make agglutination tests on his serum.

BACTERIOLOGICAL FINDINGS

Samples of blood were taken on the 7th, 10th, 12th, and 25th days of illness.

Blood culture.—Felix's (1933a and b) technique for the isolation of proteus was used. Portions of coagulum were kept in the dark at 37° C. and at room temperature, and subinoculations were made on to rabbit blood agar at intervals of two days. Eventually veal broth was added and repeated subcultures made, but all cultures remained sterile.

Weil-Felix test.—Suspensions were used of (*a*) killed organisms from the Standards Laboratory, Oxford, and (*b*) living organisms from the Lister Institute, grown on dried agar at 37° C. for 24 hours and suspended in normal saline. The cultures used were carefully examined for spreading H colonies as these would have reduced the sensitivity of the O antigen. Controls in 3·4 per cent. and 6·8 per cent. saline were used to ensure the absence of smooth→rough variation. The tubes were kept in a water-bath at 52° C. for 24 hours and examined after standing for 15 minutes at room temperature. The highest dilutions of serum which produced complete agglutination, except where specially mentioned, are given in Table I.

Table I

Strain of proteus.	Source.	Titres.			
		Sample I	II	III	IV
(O)X19 ..	Standards Laby.	25* & 50*	125	1250	1250
(O)X19 ..	Lister Inst.	25* & 50*	125	1250	1250
(O)X2 ..	Standards Laby.	25*	25*	50	125
(O)X2 ..	Lister Inst.	25*	25*	50	125
(O)XK ..	Lister Inst.	25	25	25	50

* Incomplete.

The titres obtained were, of course, diagnostic of typhus, though titres of 125 for proteus (O)X19 and (O)XK have been recorded by Gray (1937) in a case of gastro-enteritis associated with *Proteus vulgaris* (H). A titre of 200 is strong presumptive evidence of typhus in a patient who has not recently had the disease (Topley and Wilson 1936).

Widal test.—The results shown in Table II were obtained with Standards Laboratory suspensions, and were obviously due to previous T.A.B. inoculation, the slow increase in the titres for the H antigen being presumably a non-specific effect.

Table II

Sample	I	II	III	IV
Bact. typhosum (H) ..	125	125	250	250
Bact. paratyphosum A..	50	50	125	250
Bact. paratyphosum B..	50	125	250	250
Bact. typhosum (O) ..	Nil	Nil	Nil	Nil

In dilutions of 1 in 25 to 1 in 250 no sample agglutinated the Standards Laboratory suspensions of *Brucella abortus*.

Wassermann test.—The first two sera gave a weak positive, the third a strong positive, and the fourth a negative reaction. This was in keeping with the results of Bauer (1921), and Davidson and Cruickshank (1927).

Urine.—Samples obtained on Nov. 18th and 24th were cultivated by Felix's technique but proteus was not obtained.

Fæces.—Samples taken on Nov. 15th and 25th yielded no pathogenic organisms.

DISCUSSION

The evidence points to infection having occurred at the patient's place of work, a large flour and oil-cake mill, for his home was clean, no vermin were found on him or his contacts, he had had no unusual visitors, and none of his family had been abroad recently or had any illness suggestive of typhus. Examination of the men with whom he worked in sorting sacks and of their homes failed to reveal any vermin or suspicious illness. Two men had been off work at the beginning of 1937 with "influenza" but their illnesses were not suggestive of typhus and their sera diluted 1 in 25 failed to agglutinate suspensions of proteus (O)X19, (O)X2, or (O)XK. The chances of infection being imported from abroad must be remote as cargoes are constantly reaching

the mill from typhus-infected countries and yet the last case in Bristol occurred ten years ago and was unconnected with the mill. All ships from infected ports are medically inspected on arrival, and there had been no sickness while in port; nor had the patient been on any of these ships or in contact with their crews.

Infection might have been carried by sacks or other cargo. During the 21 days before the patient fell ill he had handled sacks from Alexandria, Sudan, Rangoon, River Plate, and the Dutch East Indies. On Oct. 21st, 18 days before the onset of his disease, he had been working with the cargo of a ship from Alexandria. If infection came from this it must have survived for at least ten days—the shortest time from Alexandria to Avonmouth—but the actual vehicle of infection is obscure. As the virus of typhus is very susceptible to heat, drying, and chemical agents (da Rocha-Lima 1919), direct inoculation from infected sacks into the abraded skin of a person working with them is extremely unlikely.

The most favourable conditions for the survival of the virus are in the louse, but the sacks showed no vermin of any kind and the men working with them say that it is unusual to find any. A louse may, by ingesting the blood of a typhus patient, become infective (Wolbach and others 1922), and remain so for at least two months (Syssine 1924) and may pass the infection on to succeeding generations in its eggs (Sergent, Foley, and Vialette 1914). Infection by a louse is, then, a possibility here.

Rats are liable to infection with a murine typhus virus and may infect man via their fleas (Zinsser 1935, Topley and Wilson 1936), and we considered the possibility of a rat being imported from a country where typhus is endemic, or of a latent infection in rats remaining over from the epidemics of last century. No rats were caught in traps set in the sorting shed, but some caught immediately outside were investigated for the presence of serum agglutinins for proteus, for Rickettsial bodies in their capillaries and internal organs, and by guinea-pig injection. The serum of one rat gave a titre of 50 for proteus (O)X19, but otherwise the results were negative.

The serological data showed clearly that this case belonged to the type of typhus classed by Felix as "Type X19." This limited the diagnosis to seven of the many typhus fevers known, and, unless a rat was responsible for the infection, geographical considerations narrowed it down still further to three: the classical typhus of the old and new worlds; tropical typhus, type W (shop typhus) of Malaya and the Dutch East Indies; and the São Paulo endemic typhus of Brazil. Male guinea-pigs were inoculated intraperitoneally with citrated blood taken from the patient during his pyrexial period (Nov. 20th) to determine whether they would show, in addition to the usual pyrexia, the scrotal reactions typical of shop typhus and São Paulo typhus as distinct from the classical typhus of the old and new worlds. Only one guinea-pig, however, showed a transient temperature of 103·8° F. 18 days after its inoculation, and the virulence of the virus may not have been sufficient to produce the typical febrile reaction of 105° F.

SUMMARY

The clinical course and bacteriological investigation are described of a case of typhus fever in Bristol which appeared to have been acquired from imported sacks with which the patient worked.

Transmission may have occurred through infected lice or rats, but exhaustive attempts to trace the source of infection were unsuccessful.

We desire to thank the medical officer of health, Prof. R. H. Parry, for permission to publish the case.

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DIPHTHERIA IMMUNISATION WITH FINELY ATOMISED FORMOL TOXOID

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An attempt to stimulate the production of diphtheria antitoxin in the human subject by inhalation methods was suggested by the interesting and comprehensive work of Claus Jensen (1937). He had shown that intranasal application of diphtheria toxoid provided an efficient secondary stimulus in diphtheria prophylaxis. There were objections to his procedure in dealing with small children which have been discussed elsewhere (Bousfield 1938), and need not be enlarged upon here. Suffice it to say that many small children are frightened by being laid down upon a couch and kept still while nasal drops are inserted and retained for several minutes.

THE EXPERIMENT

Since the nasal stimulus had been proved to be efficient, it only appeared to be necessary to find some way of applying diphtheria toxoid to the mucosa which would not alarm small children. Many possible methods were considered, but finally it was decided to fill the air of a room with finely atomised diphtheria formol toxoid and to submit a number of volunteers to the process of inhaling the air by nose and mouth. It was thought that, owing to the large amount of mucosa and tissue with which the spray must thus come into contact, an efficient immunising stimulus was likely to be applied.

Five adults, besides ourselves, volunteered to undergo the test. All had blood taken for antitoxin titration before exposure to the first toxoid spray. They then entered a room of about 15 by 12 by 10 ft., in which an apparatus capable of atomising toxoid at the rate of about 1 c.cm. per minute was installed. The spray was started and 50 c.cm. of toxoid of about 40 Lf per c.cm. was sprayed into the air. The subjects constantly changed their positions in rotation to allow for possible uneven distribution of the toxoid mist in the air. During the 50 minutes' exposure, all did their utmost to make the experiment successful by free breathing, both through nose and mouth. After a lapse of 14 days six of the volunteers submitted to the same procedure, the seventh being excluded for reasons which will be given later. After a further interval of a fortnight blood samples were again taken from all seven persons in order that the antitoxin content might be compared with the figures obtained before treatment.

RESULTS

From the immunological aspect the results exceeded expectations in most cases, and if the description could end at this point it might be said that a useful new procedure had been discovered. Unfortunately there was a sequel, but before discussing subsequent events the bare results of the test as regards antitoxin production are given in the Table.

EFFECT OF INHALATION

Subject.	Blood antitoxin titre (units).	
	Before spray.	14 days after two sprayings at 14 days' interval.
1	1/10 unit.	2 units.
2	1/250 "	5 "
3	1/10 "	10 "
4	1/10 "	10 "
5	1/25 "	1/5 unit.
6	1/1000 "	1/500 "
7	1/2* "	2 units.

* One spray only.

From this it will be noted that all those subjects who originally had 1/10 unit of blood antitoxin or more showed a great improvement as a result of the spray treatment. Of the three subjects who had relatively smaller amounts 1/25 unit or less initially, only one showed much antitoxin gain, but the improvement was from 1/250 unit to 5 units, a truly remarkable result.

SYMPTOMS

The actual figures having been given, it may now be advisable to explain a little more about the experiment. If the method were to be applicable to children it was first of all essential to demonstrate that it was quite harmless to adults. On the face of it, there appeared to be very little risk in undergoing the experience, as any amount of toxoid actually taken into the body was likely to be only a fraction of the ordinary injection dose. Nevertheless, the group of adult volunteers was considered much more likely to experience reaction than children, as most adults are far more intolerant to injections of diphtheria toxoid in any form than are children. It was rather expected that the warning note of any allergic phenomena might be observed in the conjunctivæ, and during the first spray experiment a careful watch was kept on this point, but nothing was noted. Three of the volunteers remarked on the presence of slight frontal headache during actual exposure, and one of us experienced a transient pain at the back of the eyes for about three minutes. Nothing was experienced serious enough to deter any of the subjects from volunteering for the second exposure when they separated on the day of the first.

It will be noted in the Table that volunteer No. 7 is shown as having only received one treatment. The reason was this. On the evening of the spraying, which was concluded at about noon, she experienced a tightness of the chest, pains in the back and spine, and had some difficulty in breathing on the following day or two. Her father had a history of asthma, and it was supposed that she might equally be a potential asthmatic. It was therefore considered wise to exclude her from any further participation in the experiment, apart from a final titration of her blood antitoxin at the same time as the other bloods were taken. Incidentally she was one of the subjects who had experienced the frontal headache at the first spraying.

The remaining six volunteers passed through their second spraying without untoward effects, even the headaches being entirely absent. At this point the satisfactory side of the experiment ends. It will perhaps be best to give the history of the subjects as regards previous experience of diphtheria, if any, together with a description of the symptoms experienced by them some hours after the second spraying.

No. 1.—Male aged 44. Had diphtheria about 34 years ago and was treated with a small dose of antitoxin fairly early in the disease. Schick reaction in recent years pseudo and negative. Original blood antitoxin 1/10 unit. About four hours after spraying he felt cold and shivery, but did not take his temperature as connexion with the experiment was not thought of. A tightness of the chest and unsatisfactory cough developed fairly suddenly, and severe malaise was experienced, with the result that he retired to bed at 9 P.M. without his nightly whisky and soda. The taste of alcohol was repulsive. He felt poorly the next morning, but became normal about lunch time. His blood antitoxin was subsequently found to have increased to 2 units. Apart from his knowledge of what happened to the other volunteers he would have regarded the whole as an unusual type of cold.

No. 2.—Female aged 38. Schick-tested and found Schick-positive in 1935. She received one injection of 1 c.cm. of toxoid-antitoxin floccules at that time, but had such a severe local reaction that further treatment was not given. Her blood-antitoxin titre before the spray was 1/250 unit. At the first spraying she was one of the subjects who experienced the frontal headache, and since confessed to slight tightness of the chest during the treatment, but felt respiration very easy immediately afterwards. About 5½ hours after the second spray she began to shiver violently, and her temperature was taken at 8 P.M., when it was found to be 101·4° F. She was sure that it had been considerably higher on her journey home. Her main symptoms were violent frontal headache and pain in the right armpit. Her face was described as having been puffy the next day, which she was obliged to spend in bed At the final bleeding her antitoxin was found to be no less than 5 units. In view of the briskness of her reaction it was thought advisable to perform a subsequent Schick test to see if she had become a pseudo-negative reactor. She was of course negative, but there was no trace of pseudo reaction, an important point in the subsequent consideration of the significance of these signs.

No. 3.—Male aged 44. Negative and faint pseudo reactor to Schick test. His immunity was natural, there being no history of diphtheria. His original blood antitoxin figure was 1/10 unit. About 7 hours after the second spraying he felt faint, became unconscious during dinner, and vomited on becoming conscious. Brandy which was administered to him on regaining consciousness was distasteful to him, though ordinarily he has no such aversion. He was taken home and put to bed and the next day complained of severe pain and stiffness in the knee-joints, but without swelling or effusion. He did not feel normal for several days. He was not one of the subjects who experienced any headache at the first spraying. Actually he is a fairly protein sensitive subject, as he experienced a similar fainting attack following an injection of typhoid-paratyphoid prophylactic vaccine several years ago. His blood antitoxin was found to have increased by no less than 100 times to the figure of 10 units as a result of the spray.

No. 4.—Male aged 17. Never Schick-tested. No history of diphtheria in himself or his family. His initial blood-antitoxin titration showed him to be a naturally immune subject as he had 1/10 unit. On the evening of the second spraying he felt ill and shivered. He went to bed and vomited that night

and again the next morning. He experienced loss of appetite, and felt sufficiently ill to remain in bed for two days. He had a slight cold on the day of the second spray, which may have complicated the picture as regards the length of his disability. He again showed a big increase in his blood antitoxin as a result of the spray, the figure rising to 10 units, or a hundredfold. He experienced headache at the first exposure.

No. 5.—Male aged 26. Originally a Schick-positive reactor immunised by means of three injections of toxoid-antitoxin mixture about nine years ago. His final Schick test was a plain negative without pseudo reaction. He has no history of contact with diphtheria. His blood antitoxin before the experiment was found to be 1/25 unit. He experienced no discomfort at or after either exposure to the spray, and the final figure obtained for his blood antitoxin was only 1/5 unit. This is a point which may be noted as the increase was only fivefold.

No. 6.—Male aged 20. Was found to be Schick-positive two months previously without any pseudo reaction. He received three injections of toxoid-antitoxin floccules, but the date of his re-Schick test had not arrived at the time of the commencement of the spraying procedure. It is interesting to note that in spite of this treatment two months before, his blood antitoxin immediately before the experiment was only 1/1000 unit. He experienced no ill effects at or after either spray exposure, and when his blood was finally titrated for antitoxin the figure obtained was only 1/500 unit. This case is of particular interest since it is clearly an example of the type of individual who is difficult to immunise, even after multiple stimuli.

No. 7.—Female aged 40. She gives a negative Schick test with a violent pseudo reaction. She has no personal history of diphtheria, but her brother had a bad attack when she was six years old. Her antitoxin content before the first spraying was ½ unit. As previously mentioned she had something that resembled an attack of asthma following the first exposure and was excluded from further treatment. Her blood taken subsequently, at the same time as the others, had increased its antitoxin content to 2 units, a fourfold increase *as a result of one exposure*. As the blood sample was taken one month after her single treatment, not fourteen days after the final spray as in the other cases, her antitoxin might even have been higher at an earlier date. The italics are inserted to stress the fact of the single exposure in this case, as the results are otherwise difficult to understand.

DISCUSSION

It is clear that it is not necessary for a subject to show a pseudo reaction in order to experience an allergic manifestation, as the case of No. 2 shows. At first sight it appears almost as if those who had an original high blood antitoxin content were most prone to allergic symptoms on treatment, but subject No. 2 again throws doubt on that view. Further, age alone is not the determining factor, since No. 4, who had a sharp reaction, was the youngest in the group. The next two youngest escaped allergic manifestations.

Excluding No. 7, which had only one exposure, there is one fact that appears clear. All who were sprayed *twice* and at the same time *produced the largest amounts of antitoxin* were the same subjects who suffered from the allergic symptoms. Subject No. 1 produced the least relative and absolute rise in his blood antitoxin of all those who experienced symptoms, and his reaction was undoubtedly the mildest. The remaining Nos. 2, 3, and 4 showed a much greater production of antitoxin, both relatively and absolutely, and appeared to suffer from allergic symptoms in proportion to that production.

Following on the above observations, the suggestion is put for consideration that the reactions in this experiment may, in part, be connected with the sudden production of considerable amounts of antitoxin. Such overstimulation of the antibody-production-mechanism as there may have been in this experiment might well produce a temporary abnormal state in the body accompanied by a general reaction. It is known that in some subjects antitoxin is produced very rapidly in response to injections and other stimuli. How rapidly such production may have occurred in response to the very wide area stimulated in this test must be a matter for speculation, but the change may have been very rapid.

The question now is, what went wrong with the experiment? The group of volunteers selected for the investigation would have been a particularly susceptible one, and most of its members could be expected to react unfavourably to any *injection* of diphtheria toxoid. If that had been the whole of the difficulty however, surely the symptoms would have been equally likely to have arisen as a result of the first exposure to toxoid spray. It seems probable that Nos. 1–4 became sensitised at the first spraying and only developed the allergic response as a result of the second treatment. No. 7 was presumably sensitised to some extent before exposure to the first spray.

The possibility is that the experiment may have been thoroughly overdone. A more gentle procedure might have been better. It might have been well to atomise only 10 c.cm. of toxoid and to make the exposure ten minutes instead of fifty. It did not seem likely, when making original approximate calculations, that 50 c.cm. of toxoid atomised in 1800 cubic feet of air could have produced excessive dosage. There must have been much wastage by settlement of the toxoid mist. The fear was rather that the dosage might not be adequate. What was overlooked was the possible effect of the application of minute amounts of toxoid to a very large area of mucosa, in relation to the production of a state of sensitivity. From the immunological aspect the large area involved had been regarded as one of the most hopeful aspects of the prospected method.

Children might stand a modification of the treatment quite well. Smaller dosage and shorter exposure would be indicated, but it would be necessary for an adult to be in attendance. He would be liable to become sensitised unless he could control the procedure through an observation window. Alternatively he might wear a respirator, but such an article would not be calculated to inspire confidence in parents who brought their children for treatment.

Again, the fault may have been with the antigen. Formol toxoid may not have been the ideal preparation for the purpose. Perhaps a more protein-free antigen might be evolved, which would render allergic phenomena far less likely. Symptoms might also be minimised by using a much more dilute formol toxoid in the atomiser.

Since both of us are sensitised, it is difficult to know how to proceed with this investigation. The method seems too hopeful to be discarded finally because this initial effort has miscarried somewhat. If someone fresh and unsensitised could continue the experimental work, and were prepared to proceed much more carefully, using a highly refined toxoid in smaller dosage, the result might well be satisfactory from every point of view.

In spite of Jensen's conclusion that nasal installations were useful only as a secondary stimulus, it is conceivable that stimuli applied to the whole

respiratory tract might even be effective as a *primary* stimulus, to the exclusion of all injections. The use of some antigen in the atomiser which had the delayed absorption properties of alum-precipitated toxoid might well produce a good initial stimulus in the respiratory tract. A.P.T. as at present constituted would probably be too irritant for practical purposes, but some other form of bound antigen might be produced. In the experiment here described it is probable that some of the atomised toxoid may actually have reached the lung tissue. The very existence of anthracosis shows that finely divided matter can pass the ciliated epithelium of the respiratory tract. Consideration of the above suggests that the method might be applicable to immunisation against other diseases, particularly when antigens with a low protein content, and devoid of irritants, have been evolved. The dosage would have to be determined by careful approach. There is even possibly a future for antigens inhaled as dust in a very finely divided condition.

We desire to extend our thanks to Dr. R. A. O'Brien and Mr. A. T. Glenny of the Wellcome Physiological Research Laboratories for much valuable help in the performance of antitoxin titrations. Also to Milton Proprietary Ltd. for the loan of a very efficient atomiser, without which the experiment could not have been conducted satisfactorily.

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CALCIUM MANDELATE

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The efficacy of mandelic acid as a urinary antiseptic has been widely recognised since its introduction in 1935. The original treatment with sodium mandelate met with two main objections—the unpleasant flavour of the drug, which tended to cause nausea, and the necessity for the simultaneous administration of an acidifying drug such as ammonium chloride. The latter disadvantage was overcome by the use of ammonium mandelate which is itself a powerful urinary acidifier; but this too is unpleasant to take and often gives rise to nausea.

Schnöhr last year reported upon the clinical use of calcium mandelate and he showed that, like calcium chloride, it is able to acidify the urine. He published a short series of cases treated with the new salt, with satisfactory results. The use of calcium mandelate has also been independently advocated by Hryntschak (1937). Since this salt is almost tasteless, this new method of administering mandelic acid appeared to mark an advance on previous methods and we have been able to confirm the claims made on its behalf.

Pure calcium mandelate is an insoluble, tasteless, white powder. It is immiscible with water, but can be given either mixed with food or milk, or taken as a powder and washed down with water. Schnöhr used a granular chocolate-flavoured preparation. Some of our cases have been treated with pure calcium mandelate which had actually been prepared for one of us (M. L. R.) by British Drug Houses in 1936, but the majority have been given a preparation made by the same firm and marketed under the name of Mandecal. This powder is freely miscible with water and is pleasantly flavoured.

MODE OF ACTION

It has long been recognised that the oral administration of calcium chloride will render the urine acid and this salt has been used in the treatment of urinary infections. The calcium becomes immobilised in the intestine and is not absorbed. Haldane, Hill, and Luck (1923) were able to show that when calcium chloride is taken by mouth most of the calcium is excreted in the fæces as calcium carbonate, while almost all the chloride is absorbed. They postulated that, in the neutral intestinal contents, the calcium was precipitated by the carbonates of the digestive juices, replacing the sodium bicarbonate by sodium chloride. The reabsorbed base (Na) is therefore in combination with a fixed acid radicle (Cl) rather than with the labile HCO_3, the alkali reserve is reduced, and the various regulating mechanisms are set in motion with the resultant excretion of an acid urine. Gamble, Ross, and Tisdall (1923) found that 60 per cent. of the calcium taken by mouth in the form of calcium chloride was excreted in the stools, whilst only 4 per cent. of the added chloride escaped absorption. They further showed that the metabolism of the extra acid ions from the calcium chloride did not disturb the concentration of total base in the blood-serum, though the bicarbonate was lowered by 24 per cent. The mode of action of calcium mandelate is presumably similar, but the mandelic ion, being a non-threshold substance, foreign to the body, is not retained but is rapidly excreted from the body, so that the resultant urine, besides having a low *p*H, contains free mandelic acid.

CASES TREATED WITH CALCIUM MANDELATE

Type of case.	Number.	Cured.	Failures.
Pyelitis—			
Recent acute	13	12	1*
Chronic	5	1	4†
Pregnancy	1	—	1‡
Puerperal	4	3	1§
Cystitis—			
Acute	2	2	—
Chronic and bacilluria ..	8	7	1‖
Total	33	25	8

75 per cent. cured.

Failures.—* Ovariotomy, acute pyelitis, cured, relapsed, discharged herself.

† (*a*) Urine never acid. Auricular flutter, died from cerebral embolism. (*b*) Not completely treated or investigated. (*c*) ? Functionless kidney. (*d*) Hypertension. Recent albuminuria of pregnancy. Blood-urea 32 mg. but difficulty in acidifying urine.

‡ Pregnancy.

§ Puerperal. ¶ Ureteric calculus.

‖ Cystocele. Residual urine.

CLINICAL RESULTS

We have confirmed the fact that calcium mandelate is an effective urinary acidifying agent, both in normal subjects and in patients with urinary infections. In 2 patients with complete achlorhydria, the salt also rendered the urine acid, indicating that the splitting of the insoluble calcium mandelate does not require the presence of hydrochloric acid.

The dosage, as with all mandelic acid preparations, is that containing the equivalent of 3 grammes of mandelic acid and this dose is given four times a day after meals. In the case of pure calcium mandelate

the dose is 3·5 g., or of mandecal 4·5 g. With children above the age of six, two-thirds of the adult amount has been given with no ill effect. The fluid intake should be limited to two pints a day.

Almost always the urine rapidly becomes acid, the *p*H falling to about 5·0; of a series of 32 cases it has been necessary to give additional ammonium chloride in only 4, and in 2 of these renal function was probably impaired.

The results obtained with the new salt compare favourably with previous reports and are summarised in the accompanying Table. The 8 failures include 1 patient who died of intercurrent disease, whilst in another case the treatment was never satisfactorily completed. In the 6 others that were resistant to treatment, some reason for the failure was apparent (see Table).

There is no reason to believe that the new preparation will give better results than those that are obtainable with ammonium mandelate, but the calcium salt is pleasant to take, and appears to produce less gastric irritation. Nausea occasionally occurs but usually passes off after a day or two or can be avoided by giving the drug in different time-relation to the meals. Hryntschak states that it should not be used for longer than ten days at a time, for he found that after this time nausea and a dislike of the medicine appeared. It is rarely necessary to give any form of mandelic acid for more than a fortnight, but no ill effects have been observed following longer administration.

The contra-indications to the treatment are the same and where there is renal failure calcium mandelate is no more suitable than other preparations of mandelic acid. It has been used in one or two instances in the presence of pyrexia with favourable results.

It seems possible, at the present time, that the sulphanilamide group of drugs may prove the most effective form of treatment for urinary infections, but in many cases mandelic acid is likely to remain the drug of choice. This new salt offers certain advantages over previous methods of administration.

SUMMARY

Calcium mandelate has been tried in a series of 33 cases of urinary infection.

It is an efficient urinary acidifier, pleasanter to take and less irritant than other preparations of mandelic acid.

Our thanks are due to the various members of the staff of University College Hospital and to Dr. Humphrey Nockolds of Lewisham Hospital for their kind permission to treat their cases. We are also indebted to the British Drug Houses Ltd. for supplying us with the calcium mandelate and later with the Mandecal used in the treatment of these patients.

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INTERNATIONAL CONGRESS OF COSMOBIOLOGY.—The first International Congress of Cosmobiology will be held on the Côte d' Azur at Whitsun from June 2nd to 6th. The congress is being organised by the Société Médicale de Climatologie et d'Hygiène du Littoral Méditerranéen. Prof. d'Arsonval will preside over the radiology section and Monsieur A. Lumière over the biology section. The secretariat of the congress may be addressed at 24, Rue Verdi, Nice.

INFECTION WITH *BRUCELLA ABORTUS* TREATED WITH PRONTOSIL

BY L. AYLWIN RICHARDSON, M.B. Camb., F.R.C.S. Eng.
SURGEON TO THE CHILDREN'S HOSPITAL, SOUTHAMPTON

IN a series of 115 cases Creed (1936) found that the duration of attacks of abortus fever varied from 3 to 39 weeks, with an average of 12½. Most forms of treatment have so far proved unsatisfactory, though Fouadin has been recommended and success with injections of killed typhoid bacilli is reported (Ervin and Hunt 1937). In view of the success achieved with sulphanilamide in various other infections, I decided to try Prontosil in two cases of *Brucella abortus*.

CASE 1.—The illness started suddenly with high fever, frequent rigors, and profuse sweating. By the end of a week the patient, a man of 46, was seriously ill and his serum agglutinated *Brucella abortus* up to dilutions of 1 in 500. As soon as the diagnosis had been made, two 0·3 g. tablets of Prontosil album (sulphanilamide) were given twice a day with an intramuscular injection of 5 c.cm. of the 5 per cent. solution of Prontosil Soluble on each of four consecutive days. The result was dramatic: symptoms disappeared, the temperature dropped rapidly (Fig. 1), and an ill man became quickly convalescent. On the 14th day of the disease it

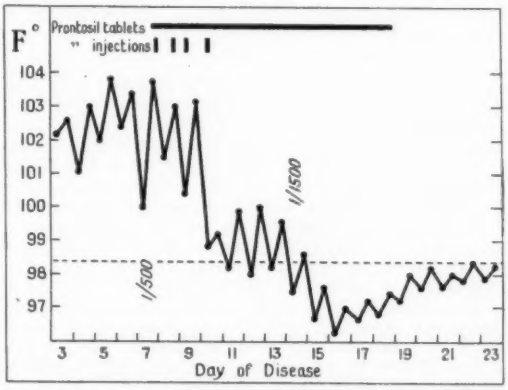

FIG. 1.—Temperature chart in Case 1 (original attack).

was found that the patient's serum agglutinated *Br. abortus* up to 1 in 1500, and this was taken as clinching the diagnosis. A fortnight later he left for a ten-day cruise, but when he had been home a little over a week he sent for me complaining of headache, aching limbs, and general malaise. I found that he was now running an evening temperature of between 100° and 102° F. I immediately put him to bed and reinstituted prontosil treatment for six days, after which his temperature remained steadily normal. One week, three weeks, and six weeks later I told him to take three prontosil tablets daily for six days. He had no rise of temperature during that time, nor has he had a relapse since.

CASE 2.—The second patient, aged 63, had been in bed with abortus fever for twelve weeks in another part of the country. Two months later he was staying in my district and became suddenly ill with a rigor and high temperature. On questioning him I found that ever since his first attack he had been feeling ill and had often found his evening temperature to be between 99° and 100° F. I gave him two

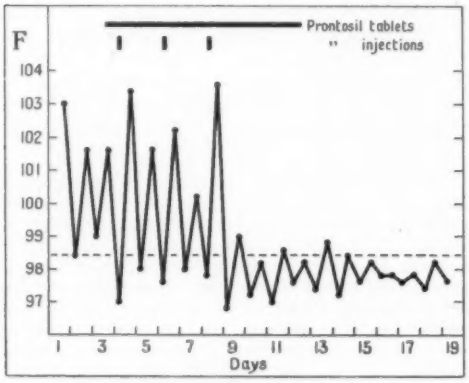

FIG. 2.—Relapse in Case 2.

tablets of prontosil album three times a day and an intramuscular injection of prontosil soluble on alternate days for six days. He became slightly cyanosed and short of breath, but his temperature fell to normal (Fig. 2) where it has since remained. To him also I gave short courses of the tablets, one, three, and six weeks later.

It is of interest that in the second case the patient's temperature seemed to rise in the evening of the days on which he had his prontosil injections. Ervin and Hunt (1937) note "that most successful treatments are accompanied by a sharp thermal reaction. This is true regardless of whether the treatment given is administration of a vaccine, toxic filtrate, specific serum, chemical or foreign protein, or fever produced by mechanical appliance." They go on to say that "it must be noted, however, that numerous cures have been reported when no thermal reaction was induced by the medicament and one must not forget that spontaneous recovery often takes place."

These two cases are reported in the belief that abortus fever and its relapses can be controlled with sulphanilamide compounds, and in the hope that others will try this remedy.

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SULPHANILAMIDE IN THE TREATMENT OF UNDULANT FEVER

By A. E. Francis, M.D., M.R.C.P. Lond.

SENIOR DEMONSTRATOR OF PATHOLOGY IN THE MEDICAL COLLEGE, ST. BARTHOLOMEW'S HOSPITAL, LONDON

Several cases of undulant fever due to *Brucella abortus*, in which success has been claimed for treatment with sulphanilamide or with Prontosil, have been published, chiefly on the Continent (Grouès 1936, Suchier 1937, Berger and Schnetz 1937, Ahringsmann 1937, Lloyd 1938). This paper records two cases in which a similar success appears to have been achieved, with a note on the sensitivity of *Br. abortus* to sulphanilamide in vitro.

CASE RECORDS

Case 1.—Miss T., aged 46, returned from South Africa to England, and a few days later complained of fever and generalised aching pains, with cough and dark sputum. She was thought to have bronchopneumonia. After three weeks in bed she got up, but a week later the fever and pain returned. After another week she was admitted to St. Bartholomew's Hospital under the care of Dr. George Graham (May 21st, 1937). Her only abnormal physical signs were those of an enlarged heart with a mitral systolic murmur, the scar following the removal of one breast for mastitis seven years before, and a tender liver palpable two fingers-breadth below the costal margin. The spleen was not palpable. Serum agglutination reactions were negative for the enteric group, but *Br. abortus* was agglutinated to a standardised titre of 1 in 800, and *Br. melitensis* to a standardised titre of 1 in 66. A blood culture, taken on the same day, gave after ten days' incubation in 10 per cent. CO_2 a growth of *Br. abortus*, while tubes incubated without CO_2 remained sterile. The organism remains CO_2-sensitive after several subcultures.

Treatment with 200 grains of sodium salicylate daily for two days had no effect on the fever, as shown by the chart (Fig. 1). Treatment with sulphanilamide was begun on June 7th, 3·0 grammes a day being given. On June 12th treatment was discontinued because the patient became cyanosed. It was found that phenacetin had been given for the relief of her pains at the same time as the sulphanilamide, and that she had developed a mild methæmoglobinæmia, which rapidly disappeared on stopping both drugs. Her pains and fever then disappeared, and she remained free of symptoms until her discharge three weeks later. A report has been received from her in South Africa, dated Dec. 15th, 1937, saying that she has remained well.

Case 2.—Mr. C. J., aged 32, a hospital-equipment adviser, was admitted to St. Bartholomew's Hospital under the care of Dr. F. G. Chandler on August 10th, 1937, with the story that he had been staying at a farm five weeks before, where he had consumed much raw milk and had assisted at the birth of a calf. A fortnight later there was a sudden onset of malaise, headache and backache, fever and sweating. After three days in bed he got up, but felt weak and returned to bed. Night sweats were profuse, but he felt well during the day. After a fortnight he was afebrile for four days, but the fever returned and persisted.

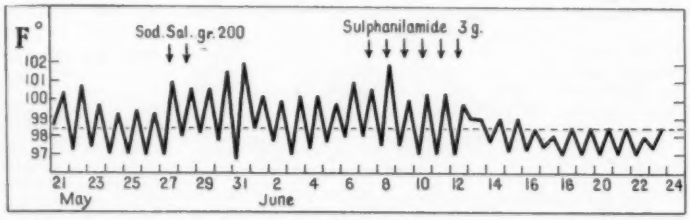

FIG. 1.—Temperature chart in Case 1.

He was a well-built man, and on admission he showed no abnormal physical signs. The spleen was not palpable. Hæmoglobin 96 per cent., white cells 9000 per c.mm. His serum agglutinated *Br. abortus* to a titre of 1 in 800 + + (1 in 1600 +), but the organism was not grown on blood culture. While he was still febrile, though the temperature tended to fall, treatment with sulphanilamide was begun, and 3·0 g. was given daily for five days (Fig. 2). He became afebrile and free of all symptoms, and was discharged

on Sept. 5th. A report has been received from him, dated Jan. 19th, 1938, stating that he has remained in good health.

EXPERIMENTS IN VITRO

Although there is some doubt about the relation of the action of sulphanilamide in vitro to its therapeutic activity, the following experiments suggest that the drug should receive further trial in undulant

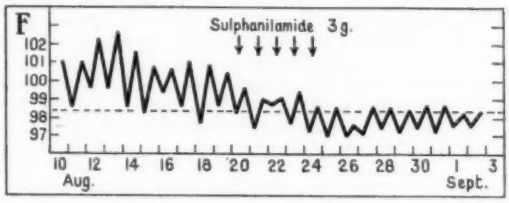

FIG. 2.—Temperature chart in Case 2.

fever. The results quoted for the strain isolated from Case 1 are substantially the same as those obtained with two other strains tested in the same way ("Astor," supplied to me by Prof. L. P. Garrod, and previously obtained from Prof. G. S. Wilson, and "R.G.C.," supplied by Prof. Garrod). In each experiment tubes containing 4 c.cm. of heart-extract broth, of such strength that the addition of 1 c.cm. of distilled water made them up to standard concentration, were used, and 1 c.cm. of a suitable solution of sulphanilamide was added. The tubes were then inoculated with 0·1 c.cm. of diluted broth cultures of the organisms. An experiment was done in duplicate with *Streptococcus pyogenes* ("Richards") and the results are given for comparison in Tables I and II.

These results appear to show that *Br. abortus* is considerably more susceptible to the action of sulphanilamide in vitro than is *Strept. pyogenes* under the same conditions.

TABLE I—*Streptococcus pyogenes* (Richards)

Inoculum.	Concentration of sulphanilamide (per cent.).							
	0·1	0·05	0·02	0·01	0·005	0·002	0·001	Control.
10,000	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ + +
1,000	+	+	+	+ +	+ +	+ +	+ +	+ + +
100	Tr.	+	+	+	+	+	+	+ + +
10	0	0	0	Tr.	Tr.	+	+	+ + +
1	0	0	0	0	0	Tr.	Tr.	+

Readings = Turbidity in tubes after 24 hours at 37° C.

TABLE II—*Brucella abortus* FROM CASE 1

Inoculum.	Concentration of sulphanilamide (per cent.).							
	0·1	0·05	0·02	0·01	0·005	0·002	0·001	Control.
200,000	0	Tr.	Tr.	Tr.	+	+ +	+ +	+ +
20,000	0	0	0	0	Tr.	Tr.	+	+
2,000	0	0	0	0	0	Tr.	Tr.	+
200	0	0	0	0	0	0	Tr.	+
20	0	0	0	0	0	0	Tr.	+

Readings = Turbidity in tubes after four days at 37° C., controlled by agar-slope subcultures after two days, which were incubated for a further two days, all in 10 per cent. CO_2.

I am greatly indebted to Dr. Graham and to Dr. Chandler for permission to publish these cases, and to Prof. Garrod for his advice.

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MEDICAL SOCIETIES

TUBERCULOSIS ASSOCIATION

AT a meeting of this association, held in London on Feb. 18th, with Dr. S. R. GLOYNE, the president in the chair, Dr. G. S. TODD (Midhurst) read a paper on the

Termination of Artificial Pneumothorax Treatment

The statement, he said, was frequently made that pneumothorax should be kept up for a minimum period of two years and that it could generally be terminated within four years. This was a most misleading generalisation, since the question depended materially upon the type of lesion for which the treatment was instituted, ranging from the very early case with a small amount of infiltration in one lung and a complete absence of symptoms, up to the long-standing case with thick-walled cavities. In the first group obliteration could probably be safely allowed within two years, and in the last group the collapse should, if possible, be kept up permanently. In between these extremes were cases of fibrocaseous disease, others of acute broncho-pneumonic type, and yet others of thin-walled cavities. For most of these the length of treatment varied according to the progress made in each individual case. The duration of A.P. should always be reckoned from the time of complete and adequate collapse of the diseased lung area, and not from the date of the original induction. As a general rule, re-expansion might be considered when the completely collapsed case had reached what was regarded as a normal period for its type of disease, always with the proviso that the patient had been completely free from all symptoms for at least 9 to 12 months. Among the complications which might hinder re-expansion or make it hazardous were :—

(1) Excessive formation of tough fibrous tissue encapsulating a lesion.

(2) Pleural effusion resulting in a thickened visceral pleura.

(3) Unequal expansion of upper and lower lobes, in which an apical thoracoplasty might later become necessary.

Re-expansion of a collapsed lung should always be carried out slowly, in order to allow the necessary adjustments to take place, and to ensure that reactivation of the disease would not occur. Air should be introduced at increasing intervals and in smaller amounts, each being carefully controlled by screening. If during re-expansion the extrapleural pressure became too negative, and if re-expansion was causing too much pull upon the diseased lung or too much displacement of heart and mediastinum, pleural evulsion should be carried out. The process of termination should take on an average from three to six months, according to the previous duration of the treatment.

Abnormal terminations of A.P. were sometimes advised for one of four reasons :—

(1) Contraselective collapse.

(2) Spread of disease to sound lung.

(3) Presence of effusions.
(4) Presence of other conditions—e.g., asthma, prolonged dyspnœa, &c.

With regard to (1) the speaker believed that in very few cases was it necessary to terminate the A.P. Even in (2) nothing short of a massive spread to the opposite side would convince him of the necessity of abandoning the original pneumothorax. He was not in favour of embarking on a bilateral A.P. if disease in the other lung could be controlled by other means—e.g., by Sanocrysin. With regard to (3), a simple pleural effusion should never lead to an abandonment of the A.P., nor should aspiration be carried out too early. Tuberculous effusions, however, should be gas-replaced, if necessary repeatedly, followed later by pleural wash-outs given in order to help termination of the A.P. by removing thick fibrin from the visceral pleura and by promoting re-expansion of the lung as far as possible. This would greatly reduce the size of the thoracoplasty that would eventually be required. Effusions secondarily infected with other organisms were extremely serious, and the fluid would have to be aspirated daily. For cases in group 4 with asthma or marked emphysema, the lung should be allowed to expand in the ordinary way, the patient then being treated by sanatorium methods.

Vitamin-C Deficiency

Dr. J. V. HURFORD (Colindale) speaking on hypovitaminosis C in pulmonary tuberculosis discussed the results of an investigation on 66 patients at Colindale Hospital. Taking the minimum normal limit of vitamin-C excretion in urine as 14 mg. per 24 hours, it was found that 64 per cent. of the patients tested showed a hypovitaminosis, 25 patients having a daily excretion below 8 mg. Among the possible factors responsible for the deficient excretion, diet did not apparently play a leading part, for with large test doses of ascorbic acid (equivalent to from one to two pints of orange juice) only 50 per cent. of the patients showed a rise in the excretion above the minimum normal reading. On the question whether hypovitaminosis C reflected the clinical condition in pulmonary tuberculosis or could be used as a guide to prognosis, the speaker had found no constant relation between vitamin-C excretion and the sedimentation-rate, von Bonsdorff count, or the extent of the disease; nor did the response to test doses over a short period give any guide to the clinical condition. As regards treatment, ascorbic acid was given to 42 cases, for periods ranging from two days to three months, but the only cases in which a significant improvement was shown were 7 patients with a microcytic anæmia. Dr. Hurford concluded by saying that since there is in tuberculosis a definite nutritional defect, it would be foolish, in a disease which takes so long to treat, not to attempt to correct this, especially as the low excretion of vitamin C appears to indicate increased need of the tissues for it, for some purpose which is not yet clear.

Contact Examination

Dr. E. K. PRITCHARD (Southwark) suggested that the value of contact examination was nil unless it was intelligently carried out. While theoretically the ideal procedure might be a biannual examination of every contact, such a scheme was obviously completely impracticable; and even were it not so, it would probably have no greater ultimate effect on the incidence of tuberculosis than a careful examination restricted mainly to the adolescent and adult contact. Such an examination should be conducted with as much care as that of a new case sent up for diagnosis. The speaker urged that the X ray plant should be actually in the dispensary, contact work alone amply justifying the expense. Routine contact examination was unnecessary and even undesirable, tending as it did to produce a permanent feeling of apprehension. While the examination of adolescent and adult contacts justified the time spent on it, he doubted whether this applied to children, in whom pulmonary tuberculosis was not common, and who in any case were under the observation of welfare clinics and school medical service. Doubtful cases could always be referred to the dispensary. The efficiency of contact work was too often judged by impressive but meaningless figures, and the speaker urged that the quality of the work and the discrimination used in it should be given greater recognition.

"A Lost Art"

Dr. W. M. MCPHAIL (Burrow Hill) said his subject was less the treatment of symptoms than the modern change of attitude towards them. In studying the works of some of the great phthisiologists of the nineteenth century—works which were indeed out of fashion, but could never be out of date—he had been struck by their attitude towards symptoms, and he asked why these had ceased to be of interest to modern chest physicians. The subject was comparatively neglected in text-books and articles in current literature, and was seldom touched on at meetings of their own association. The middle of the last century was the great age of morbid anatomists, whose observations were extremely accurate and on whose reports of cures there could be complete reliance. Among the causes responsible for this change of attitude was the altered outlook illustrated by the title of the recent presidential address "From Consumption to Pulmonary Tuberculosis"—i.e., a change from a well-defined clinical entity based on morbid anatomy, to a large group of clinical conditions based on a bacteriological concept. Another cause was the recent rapid and rather haphazard development of the antituberculosis service, leading to less continuity of interest. Formerly there was one physician for the individual patient; now the patient was referred to various specialists and institutions. Studies of phthisis in the old days were studies of individuals; now there were studies of the aspects of disease in large groups of patients. Symptomatic or palliative treatment was an art which was neglected and was in danger of being forgotten or lost. Advanced and chronic patients were less well off to-day in the way of treatment than they were formerly, and the speaker urged that practitioners and hospital residents should get a better lead from experienced phthisiologists, and that discussions on symptoms should be included in the programmes of the association.

PATHOLOGICAL SOCIETY OF MANCHESTER

AT a meeting of this society on Feb. 9th, with Dr. LOUIS SAVATARD, vice-president, in the chair, a paper on

Town-dweller's Lung

was read by Dr. JAMES DAVSON. Anthracosis in town-dwellers, he said, was due to the inhalation of siliceous dust along with carbon, and a study of 94 lungs which were free from gross pulmonary disease showed, by the technique of micro-incineration, that carbon and silica existed together throughout.

Siliceous dust accumulation was greatest in the apical region and in elderly subjects. Histological examination of apical pleural scars showed that the majority contained no evidence of past tuberculosis; they appeared to develop secondarily to accumulation of siliceous dusts at the apex. In some cases the intensity of siliceous dust accumulation in apical scars was quite comparable to that seen in cases of true silicosis, yet the subjects had not been especially exposed to silica dust inhalation. In a number of these cases actual silicotic nodule formation was observed in the sites of most intense silica accumulation.

If so many of these apical scars were not tuberculous, the truth of the view that the majority of adults develop and recover from apical tuberculosis could be questioned and more stress should be laid on the factor of infection and less on the factor of individual immunity in the pathogenesis of pulmonary tuberculosis. This view should stimulate the efforts of public health workers towards the attainment of the complete and permanent segregation of the patient with "open" pulmonary tuberculosis.

Siliceous dusts were known to encourage the growth of tubercle bacilli in the tissues; therefore the inhalation of such dusts from the atmosphere of towns must have a deleterious effect on the patient with pulmonary tuberculosis. Therefore no patient known to have pulmonary tuberculosis should ever be allowed to return to town life. An example of what could be done on these lines was the Papworth Village Settlement.

ROYAL SOCIETY OF MEDICINE

SECTION OF MEDICINE

AT a meeting of this section on Feb. 22nd, with Dr. H. LETHEBY TIDY, the president, in the chair, a discussion on

Mineral Salts in Therapy

was opened by Dr. R. A. MCCANCE. He proposed that the discussion should be limited to the use of the more physiological minerals, and he confined his own contribution to treatment with sodium chloride. To appreciate and understand sodium therapy it was essential, he said, to remember that the metabolism of this element was closely tied up with the metabolism of water. About 60 per cent. of the body was water. Roughly two-thirds of the body water was in the body cells, and the remaining third was in the blood plasma, lymph, cerebro-spinal fluid, and intercellular spaces. Recent work strongly suggested that the osmotic pressure of the cellular fluids was always equal to the osmotic pressure of the extracellular fluids. If this was true it followed that when the osmotic pressure of the extracellular fluid was altered the osmotic pressure of the cellular fluids would change correspondingly. Whereas the bulk of the cellular osmotic pressure was due to potassium salts that of the extracellular fluids was due to sodium salts. Though there were exceptions—e.g., the red blood-cell—the cellular membranes were for the most part freely permeable to water but not to sodium and potassium or indeed to the other metallic radicles. Forced removal of water from the body (if such a procedure were possible without the simultaneous removal of sodium ions) or reduction of water intake produced a general dehydration in which the intra- and extra-cellular fluids suffered equally. The volumes of both fell and the osmotic pressures of both rose. Such a state might be encountered after any surgical operation on the stomach which prevented the patient taking fluid by mouth; it was quite distinct from shock and required different treatment. If the water deprivation became at all severe, secondary changes supervened, for the reduction in the volume of the extracellular fluids, particularly the blood and lymph, prevented the normal exchange of metabolites between blood and the tissues. The functional capacity of the kidneys was reduced by the diminution of blood volume and by the fall in blood pressure if any. This state of generalised dehydration could be completely cured by administration of water alone. It was unnecessary and unwise to give saline.

Forced removal of sodium from the body without any deprivation of water led to a totally different picture. Deprived of some of its sodium, the body was faced with two alternatives or a compromise between them. Firstly it might excrete the water with which the sodium was associated and so maintain the osmotic pressure of the body fluids generally in statu quo at the expense of a reduction in the volume of the extracellular fluids. Secondly it might maintain the volume of its extracellular fluids in statu quo and allow the osmotic pressure to fall. (The rabbit sometimes did this.) The moment the osmotic pressure of the extracellular fluids began to fall the osmotic pressure of the cells probably began to fall also, and, since the cell membranes were impermeable to sodium and potassium, the osmotic pressure of the cells could only fall by the cells taking up water. Thirdly the body could compromise between a reduction in the volume of its extracellular fluids and a reduction in their osmotic pressure. This was what happened in man and apparently in most animals. The result might be a severe reduction in the volume of the extracellular fluids with signs of anhydræmia—namely, a rise in the percentage of hæmoglobin and plasma proteins. Yet combined with this there might be a lowered serum sodium and a state of over-hydration of the cells. The reduction in blood volume had the effect already described, and the exchanges of metabolites between the cells and the plasma was further interfered with in a sodium deficiency by the swelling of the cells which compressed the lymphatic vessels and tissue spaces. Furthermore the kidney for some reason unknown could not produce a copious diuresis after the injection of a large quantity of water. This syndrome could be cured only by the administration of salt; water was of no avail. Saline must therefore be given to all patients who had lost salt either from sweating, vomiting, or diarrhœa or one of the rarer causes. It did not matter how it was given. It could be given by mouth if the patient could tolerate it and could be given by rectum since sodium salts are absorbed by the large intestine. But it was best given intravenously.

Any large measure of œdema was necessarily associated with excessive amounts of sodium in the body and an increased volume of the extracellular fluids. The most effective treatment was to remove the salt from the body, for if this was done the water would be excreted automatically by the kidney. Therefore if a salt-free diet was being used to reduce œdema, it was unnecessary to restrict the water intake as well. Diuretin appeared to act by forcing the kidney to excrete sodium chloride and its success in the treatment of œdema depended on this. Some animals could be made salt-deficient and killed by large doses of diuretin. The treatment of œdema always demanded caution. Some patients with œdema had an abnormally large blood volume; others had not. It might not be possible to remove the œdema without reducing the blood volume so much that signs of anhydræmia and salt deficiency supervened.

Dr. R. S. AITKEN dealt with recent work on the treatment of family periodic paralysis. A young man of 21, who was admitted to St. Alfege's Hospital in May, 1935, gave a history typical of this rare condition. From the age of 14 he had suffered, at intervals of days or weeks, from attacks of flaccid paralysis affecting all four limbs and the muscles of the back and the neck. Attacks began typically in the night during sleep; unusual exertion or a heavy meal in the evening or excessive consumption of sweets often seemed to him to bring on attacks; they lasted 8–48 hours and passed off gradually and spontaneously. Dr. Mary Walker, who had charge of the patient, found that she could induce nocturnal attacks at will by giving him 150–225 grammes of glucose by mouth in the evening. Dr. E. N. Allott was asked to see him, and, arguing from the observed rapidity of onset and offset of the paralysis, suggested an abnormal behaviour of electrolytes, in the blood and the muscles, as the likely mechanism; he had in mind phosphorus, potassium, and lactic acid, as the electrolytes known to be associated with carbohydrate metabolism. He made a complete electrolyte analysis of the patient's blood during an induced attack and again in an interval, and found no significant alteration in any constituent except the serum potassium, which during the attack was reduced to about half its normal concentration of 16–20 mg. per 100 c.cm. This important observation was confirmed in 1936 in a spontaneous attack, and shortly afterwards it was shown on Dr. Allott's suggestion that the administration of 12 grammes of potassium chloride by mouth caused complete return of power to paralysed limbs within an hour. In 1937 the patient was under observation for a longer period in Hammersmith Hospital, where Dr. L. I. M. Castleden and Dr. Allott repeated and confirmed those findings many times. It was found that insulin also would induce attacks, the paralysis coming on not during the hypoglycæmic phase but after the blood-sugar had begun to rise, four or five hours after the injection. Simultaneous administration of insulin (10 units) and oral glucose (25 grammes) every hour would regularly induce an attack, the weakness beginning about the fourth or fifth hour and reaching complete paralysis an hour or two later. These procedures were all shown to bring about, in normal individuals, a fall in serum potassium of several milligrammes per 100 c.cm., but in the patient they produced a much greater fall, and in him whenever the level went below 10–12 mg. paralysis developed. When potassium chloride was given by mouth the serum potassium rose to normal levels or higher, and the paralysis promptly passed off.

It was concluded that this patient's serum potassium was unduly labile, fluctuating widely with alterations in carbohydrate transport, and further that the neuromuscular or muscular mechanism in his limbs was in some way sensitive to low serum potassium concentrations, which inhibited contraction. It had also been shown that adrenaline injections brought about a fall of serum potassium in normal human subjects, and in a certain proportion of patients with periodic paralysis adrenaline induced attacks. Just how adrenaline, insulin, and sugar came to affect serum potassium was still obscure, nor was it clear why lowering of serum potassium paralysed the patient's muscles. Dr. Aitken concluded with quotations from several writers of 25 to 40 years ago, each of whom claimed that his own treatment either shortened or prevented attacks of periodic paralysis; their prescriptions all contained potassium bromide, potassium citrate, potassium acetate, or some other potassium salt.

Dr. C. L. COPE called attention to the possible toxic effects of mineral salts used in treatment. These substances all contained both basic and acidic radicles, which after absorption into the body behaved independently; where the therapeutic effect of the one was desired the risk of a harmful effect from the other must be remembered. He recalled a case of a hæmorrhagic blood disease in which an increase of calcium in the blood was desired. Calcium chloride was given by mouth; the calcium was mostly excreted by the bowel while the retained chlorine gave rise to a dangerous acidosis. In that case calcium lactate would have been preferable. In most instances the excretory function of the kidney protected the body against the accumulation of a harmful radicle. Even the normal kidney, however, could not distinguish bromide from chloride, and so it was possible for chronic bromide intoxication to result from long-continued bromide administration, while with the nephritic kidney, and the functionally depressed kidney—as in diabetic coma, dehydration, and alkalosis—the dangers of retention of ions would be greater. Dr. Cope suggested that the generalised œdema in diabetics in pre-insulin and early insulin days might have been due to the large doses of sodium bicarbonate often given. He quoted Blum's observation of potassium poisoning—colic, diarrhœa, and circulatory collapse—occurring in nephritics to whom potassium chloride was given while they were on low-salt diets. A similar danger might arise if potassium citrate were pushed in cases of pyelitis with coincident renal damage, and even if sodium citrate is used instead in such patients enough sodium might be retained to produce a serious alkalosis. Since the urine in those circumstances often remained acid or neutral, the physician was tempted to increase the dose of alkali; he had seen such a case with a blood-urea over 300 mg. per 100 c.cm., which recovered in 20 days after suspension of alkali. Similarly magnesium, absorbed from magnesium sulphate given as a purgative to chronic nephritics, had been shown to accumulate in the blood up to concentrations of 10 to 15 mg. per 100 c.cm. These approached the concentrations that produce coma, and he wondered how often the drowsiness of uræmic patients was contributed to by magnesium sulphate; the use of this purgative might be responsible for the undue sensitivity of uræmic patients to morphia which Osler used to emphasise. In the alkali poisoning that occasionally occurs in patients taking alkaline powders (containing magnesium) for peptic ulcer, the kidney function was temporarily impaired and Dr. Cope had found plasma magnesium values of three times the normal. He suggested that this might be a factor in producing the depression, mental lassitude, irritability, and drowsiness that are a feature of clinical alkalosis, and he thought it likely that milder degrees of this condition often go unrecognised, especially in patients taking alkaline powders on their own initiative. The rise of magnesium was also accompanied by a rise of serum calcium to 16–18 mg. per 100 c.cm.; he was not clear whether this in itself was harmful, unless it were responsible for the renal calcification reported by Cooke in some patients dying of pyloric obstruction. Those examples all illustrated the principle that apparently harmless mineral salts might not be devoid of toxic action, especially when the kidneys are no longer able to correct the electrolyte disturbance they produce.

Dr. J. F. BROCK spoke of the interrelationships of

mineral substances in the gastro-intestinal tract. The Steenbock diet, containing a great excess of calcium over phosphorus, made rats rachitic in three weeks. He had shown that great excess of iron in the diet had the same effect, and other workers had obtained similar results with magnesium, strontium, and beryllium. In all these cases the substance in excess formed an insoluble compound with the dietary phosphorus in the gut, preventing its absorption, and causing rickets through phosphorus deficiency. He had shown, however, that even the large doses of iron now used therapeutically in man were insufficient to impair the absorption of phosphorus from a normal diet to any significant extent.

Sir WALTER LANGDON-BROWN referred to a case in which potassium citrate given for pyelitis caused an alkalosis with a blood-urea of 160 mg. per 100 c.cm.

Dr. A. M. COOKE said that a further 60 cases of alkali poisoning from alkaline powders had been reported in the last six years, and he agreed that the condition must often go undetected.

Dr. E. N. ALLOTT mentioned a case in which hypertonic saline given in mistake for normal saline to a dehydrated patient with Addison's disease made the clinical condition worse by increasing the extracellular fluids at the expense of the intracellular. He said that later work on the periodic paralysis cases showed that the fall in serum potassium was not due to a loss of potassium through the kidneys.

Mr. TERENCE CAWTHORNE described work in progress on the treatment of aural vertigo. On an ordinary diet, increased water intake aggravated the patient's symptoms and measurably diminished their hearing, especially for high tones, while restriction of water intake to 20 or 30 oz. daily had the opposite effect. A sodium-free diet, which had been shown in America to abolish attacks of vertigo, was scarcely feasible therapeutically, but a low-sodium diet with strict limitation of fluid intake promised to be of considerable value.

The PRESIDENT asked whether the division of body fluids into intra- and extra-cellular was not somewhat artificial, and how well founded was the assumption that both have the same osmotic pressure.

Dr. MCCANCE, in replying, said that all the evidence so far went to support the assumption; it was good evidence but it was confined to experiments of quite short duration. The mechanism of œdema, he added, was still to a large extent obscure.

REVIEWS AND NOTICES OF BOOKS

Collected Papers on Tuberculosis

By Sir ROBERT W. PHILIP, M.D., F.R.C.P., Extra Physician to the King in Scotland; Consulting Physician, Royal Infirmary, Edinburgh; Professor of Tuberculosis and Examiner in Medicine, Edinburgh University. London: Humphrey Milford, Oxford University Press. 1937. Pp. 460. 21*s*.

THIS volume contains reprints of twenty-four articles and addresses of the years 1898 to 1934, arranged as far as possible in chronological order. It is in reality a collection of essays from the pen of a man who, despite early opposition and discouragement, did pioneer work in tuberculosis and to whom every consumptive to-day has reason to be grateful. The early chapters deal with the realisation that tuberculosis is a communal disease, the foundation of the first tuberculosis dispensary at Edinburgh and the dawn of ærotherapy in treatment. The reader familiar with the social aspect of tuberculosis to-day will find it hard to believe that, at the close of last century, the advent of phthisis in a young bread-winner spelt starvation for himself and his family. In the early days of the Edinburgh scheme the only people who dispensed treatment and necessary charity were four physicians, three of them honorary, and a Samaritan committee of ladies. In the ensuing pages, however, we can follow the gradual change that took place. First the voluntary and later the compulsory notification of the disease, and then the final recognition by the local authorities of tuberculosis as a social evil that demanded attention, with the consequent extension of the dispensary system and the collateral development of sanatoria and farm colonies. Some of the papers are in a more general vein. The concluding address, "Musings in the Garden," is a pleasing summary of what has gone before. The book should be read by anyone engaged in tuberculosis work; it will appeal especially to those who, like the writer, have always kept in mind the common weal.

Diseases of the Nervous System

In Infancy, Childhood and Adolescence. By FRANK R. FORD, M.D., Associate Professor of Neurology, The Johns Hopkins University. London: Baillière, Tindall and Cox. 1937. Pp. 954. 38*s*.

THERE are still some senior clinicians who hold that the differentiation of pædiatrics as a specialty is unjustified, since after perhaps the first year of life the manifestations of disease are much the same in childhood and in later life. This might be thought to be peculiarly true of neurology for the number of ways in which the nervous system reacts to disease is strictly limited, and the symptoms of meningitis, for example, or an intracranial tumour vary but little with the age of the patient. Dr. Ford's comprehensive book, however, amply illustrates the existence in childhood of a very large number of neurological disorders which are only occasionally seen by the "adult" neurologist, partly because they are in themselves rare, and partly because they are often associated with mental or physical disabilities which lead to the segregation of their victims in special institutions. Dr. Ford has himself made valuable contributions to the study of the manifestations of nervous diseases in childhood, and though his work naturally covers much the same ground as an ordinary text-book on nervous diseases, its special emphasis is upon the disorders entirely or mainly restricted to children and on the special manifestations in childhood of disorders which may occur at any age. The first few chapters are on the examination of the nervous system and applied anatomy and physiology. Prenatal diseases are then discussed at considerable length and the account of the heredito-familial and degenerative diseases is very complete. The arrangement of the rest of the subject matter follows in general the plan usually adopted in text-books of nervous diseases. The only serious omission in the book, which is thoroughly up to date, is that of any reference to functional nervous disorders. There is something to be said against the inclusion of such a large subject as a mere appendix to a text-book

on organic nervous diseases, but hysteria, which is not uncommon in children, surely requires consideration if only for diagnostic purposes. The book is well illustrated, except that radiograms of the skull in conditions of increased intracranial pressure might usefully have been included, and each section is followed by a brief but useful bibliography. Dr. Ford has satisfied a real need and both pædiatricians and neurologists will use his book.

Muir and Ritchie's Manual of Bacteriology

Tenth edition. Revised by CARL H. BROWNING, M.D., D.P.H., F.R.S., Gardiner Professor of Bacteriology, University of Glasgow; and THOMAS J. MACKIE, M.D., D.P.H., Irvine Professor of Bacteriology, University of Edinburgh. London: Humphrey Milford, Oxford University Press. 1937. Pp. 996. 20*s*.

THE appearance of a tenth edition of "Muir and Ritchie" on the fortieth anniversary of its first publication calls for something warmer than a passing remark. Since its first publication it has occupied a unique position among the text-books of bacteriology. Beginners and experts alike found it indispensable. Its soundness became proverbial and to quote from it was to silence criticism. The modern growth of bacteriology has made it impossible for a manual to continue to occupy so masterly a position. Many excellent large books have appeared under the title of systems, principles, and text-books, but those who are neither too strong in the head or in the arm may be thankful to find a book that can still be properly called a manual. The final withdrawal from the editorship of the great pathological teacher who was the senior author may have given rise to a little hovering, but the new editors have now got into their stride and the work as it stands is compact, consistent, and authoritative. But the format might be better.

Essentials of Pharmacology, Materia Medica and Therapeutics

For Medical Students. By D. M. MACDONALD, M.D., F.R.C.P.E. London: Henry Kimpton. 1938. Pp. 279. 7*s*. 6*d*.

THE motive behind this addition to the already large number of text-books on pharmacology is "to impress on the student the wisdom of a wider and more practical knowledge of pharmacy and materia medica." The arrangement is alphabetical and follows the British Pharmacopœia from abietis oleum to zingiber. It is doubtful however if the ease of reference thus obtained is so important as to take precedence over the classification of drugs into groups with related properties; it leads to much repetition as, for example, by the separation of the crude drugs from their constituent alkaloids. The first quarter of the book is of a general character and is given up to descriptions of prescription writing, incompatibilities, definitions, and a summary of the types of pharmacopœial preparations. The special part will no doubt prove useful in the revision of pharmacy and materia medica, but contains little about the pharmacological actions of drugs or their application in medicine. Thus the actions of adrenaline are dealt with in four lines and the uses of organic arsenicals receive scant attention. A few statements are of doubtful validity: what, for example, is the evidence that sodium iodide is less likely to cause iodism than the potassium salt or that digitalis is contra-indicated in aortic regurgitation? But the book intelligently used will serve for rapid revision and help the student to avoid the slavery to proprietary preparations.

Dissection and Study of the Sheep's Brain

By JAMES WILKIE, B.Sc., Department of Biology, Guy's Hospital Medical School. London: Humphrey Milford, Oxford University Press. 1937. Pp. 95. 6*s*.

ANYONE wishing to do so can obtain a sheep's brain, but very few who are not medical students have the chance of examining a human brain. Even for the medical student such opportunities are limited, and a preliminary acquaintance with the brain of the sheep, with the assistance of this book, would greatly enhance the value to any medical student of that one dissection of the human brain which is all that is ordinarily permitted him. For many of the difficulties which arise in the course of that dissection are due either to the reduction in size of man's rhinencephalon or to the development and recurvation of the temporal region of his neopallium. The more generalised brain of the sheep magnifies, as it were, the parts of the rhinencephalon, and the anterior and posterior parts of the piriform area are seen at a glance, while the continuity of the fascia dentata and hippocampus with the induseum griseum is not difficult to follow. The slighter degree of recurvation in the temporal horn of the sheep simplifies the demonstration of the fimbria-fornix system, the caudate nucleus, and the choroid fissure. A lucid description is given of the choroid fissure and its relations as they occur in the fully formed brain of the sheep (Figs. 14, 45, and 50), and this will be helpful to dissectors of the human brain, but the statement that these relations are due to secondary fusion between thalamus and striatum during development is not embryologically sound (p. 12). The directions for removing the sheep's brain from the skull are excellent.

Practitioners' Library of Medicine and Surgery

Supplement and Index. Supervising Editor, GEORGE BLUMER, M.A., M.D., David P. Smith Professor of Medicine, Yale University. London: D. Appleton-Century Co. 1938. Pp. 1161. £30 (in sets only).

THE twelve volumes of this library have suffered, as works of reference of their size must, from the rapid advance of medicine which makes revision necessary before publication is complete. The present volume, the last of the series, in addition to providing a general index, aims at bringing the entire work up to date by means of 73 supplementary essays by 67 American authorities. The articles are arranged roughly in the same sections as those in the previous volumes, so that they can easily be read in conjunction with them. The more important subjects dealt with here are the reticulo-endothelial system, hormones, and recent advances in therapeutics, and there is a comprehensive and practical section on the psychological aspects of pædiatric practice. More space is given to some of the rarities of medicine than their importance would seem to justify—for instance, there is an exhaustive twenty-page article on onchocerciasis—and there is a lack of reference to extra-American workers. The monographs of this encyclopædic work, however, undoubtedly advise the practitioner authoritatively upon any problem he is likely to encounter.

THE LANCET

LONDON: SATURDAY, FEBRUARY 26, 1938

MEDICINE, EUGENICS, AND SOCIOLOGY

LAST week gave occasion for three pronouncements, each designed to stimulate, explain, or extend plans for national fitness. At the Guildhall on Thursday the KING spoke of the enhanced pleasure in work or play that physical well-being brings to young and old, and of his Government's intention to provide for people of all ages facilities for exercise and education of the body; and on the next day Lord STANHOPE, president of the Board of Education, and Lord ABERDARE, chairman of the National Fitness Council, addressing delegates from area committees, disposed in specific terms of the suggestion that there is any compulsive element in the schemes projected to this end. The emphasis on enjoyment rather than racial improvement as one of the main benefits to be expected from the campaign and on opportunity without regimentation as its motive is timely. Comment on the limits of improvement to be effected by physical culture in undernourished, ill-housed, or overworked communities, and in individuals of poor pedigree was made by the Galton lecturer on Feb. 16th and endorsed by the subsequent speakers at the dinner of the Eugenics Society over which Lord HORDER presided. Prof. J. A. RYLE computed that there must be many thousands in this country whom this and kindred hygienic movements will scarcely touch because defects, both inherited and acquired, of one type and another have put them beyond the scope of the most skilled remedial exercise or games. It was disappointing, he added, that so far in the campaign scarcely a word has been said about the importance to the community and the State of those foundations of health which only a healthy stock can furnish.

The constructive proposals embodied in the lecture (which will be published in full in the April issue of the *Eugenics Review*) deserve more than the casual attention often offered to after-dinner oratory. Prof. RYLE's definition of the goal of medicine to-day is "the preservation of and the planning for the greatest possible health, happiness and efficiency for the greatest number by prophylactic measures, including eugenics and social reorganisation." This definition is the more notable in having been framed by one who describes himself justly as an active clinical physician concerned with diagnosis, the teaching of signs and symptoms, and the patching of individual lives. He recognises that "from most diseases in which recovery is possible recovery occurs spontaneously; some are only recoverable with the help of the doctor and the nurse; a few require the help of specific remedies or surgical intervention," and from this standpoint he argues that although only a limited number of diseases can in the strict sense be cured, health can be taught and the doctor of the future will far more than heretofore bring his benefits by instruction and precept. Actually the public is eager for instruction on matters biological and it is often the doctor who holds back, partly because he has not been trained to consider such advice as eugenic prognosis within his scope and thus has not equipped himself to give it, and partly out of a false sense of delicacy. Such problems as the size and spacing of families; the pros and cons of voluntary sterilisation of the unfit; taxation relief for encouragement of healthy parenthood; the significance of population fluctuations; the various causes of decline in physical standards; the origins of mental defect and so forth are not matters to which the average practising doctor, harassed by many calls on his time, has hitherto given much attention. Yet it is from doctors in personal contact with family lives that advice is apt to be sought and Prof. RYLE suggested that the general practitioner, now being gradually relieved by public clinics and extending hospital services of certain of his daily tasks, might well fit himself to serve the community in new ways. With recognition of these new functions the voluntary system of medical service would remain undisturbed; the coöperative principles would have free scope; and both the individual approach in the hospital or the consulting room and State-aided organisation could play their respective parts.

The stimulation of the interest of practising doctors in domestic eugenics was only one of the fertile suggestions made by Prof. RYLE. He visualised the formation of a national council embodying a triple alliance between medicine, eugenics, and sociology, to stand in the same relationship to the Government in the preventive field as the Medical Research Council stands in relation to the pursuit and application of medical research; the modification of the medical curriculum in order to emphasise all preventive aspects, especially the preservation of health by nutritional and other social reforms, and by application of genetic studies to eugenic education and legislation; and the establishment of research chairs or readerships in human genetics. His plea for the effective pooling, interpretation, and translation into action of the knowledge constantly being accumulated by medical workers was supported by Sir WALTER LANGDON-BROWN and Sir FARQUHAR BUZZARD, though the former hinted that the patient's predilection for the "curing doctor" was natural and would not soon be overcome. At Oxford the institution of a chair of human heredity would be welcomed by Sir FARQUHAR as a logical development of the ideal, underlying recent benefactions, of bringing the study of academic and applied science into proximity.

HÆMOLYTIC ANÆMIAS

THOUGH they have proved a useful dumping-ground for obscure blood diseases the hæmolytic anæmias form a very unsatisfactory disease group. There has been no clear and accepted definition of what constitutes a hæmolytic anæmia, and even where undue hæmolysis has been proved, there has seldom been any evidence as to how it is brought about. Within the last few months, however, considerable advances have been made. RHOADS and MILLER [1] have demonstrated that certain substances, such as phenol and amidopyrine, when taken by mouth together with a good diet are harmless, but when given with a deficient diet cause a severe sudden anæmia which they presume is hæmolytic. Further, it has been found that in Addisonian pernicious anæmia, which, since the discovery of liver treatment, has been regarded as a deficiency dyshæmopoietic anæmia, there is an increased excretion of certain pigments,[2] which suggests excessive hæmolysis. Again it is possible that such hæmolysis depends on a deficiency of some principle in liver since it apparently ceases when liver is given.

In our present issue Dr. DACIE, Dr. ISRAËLS, and Dr. WILKINSON record important experiments that go some way to unravel the cause of hæmolysis in patients with paroxysmal nocturnal hæmoglobinuria of the Marchiafava type. They find that the serum of such patients contains a lysin which is effective at ordinary body temperature, thus differing from that found in cold hæmoglobinuria, but which is extremely sensitive to slight changes in hydrogen-ion concentration within physiological limits. They suggest that reduced pulmonary ventilation during the night leads to such a change in the *p*H of the serum in vivo, and this is the reason why hæmoglobin is found in the urine passed in the morning. A similar lysin was demonstrated in normal serum, which proved capable of lysing the patient's cells; but normal cells were unaffected either by the patient's serum or normal serum: so evidently the fundamental abnormality in this disease lies in the red cells rather than in the serum. Similar results have been obtained independently in the United States by HAM.[3] A preliminary report is also available of three cases of acute hæmolytic anæmia in which DAMESHEK and SCHWARTZ [4] were able to demonstrate hæmolysins in the serum which were apparently unaffected by either cold or *p*H. These lysins were effective against red cells of all groups, including group O; they were inactivated by incubation with normal serum before the addition of red cells. One of DAMESHEK and SCHWARTZ's cases appeared indistinguishable from acholuric family jaundice, and all of them made spectacular recoveries after splenectomy. Finally JOSEPHS [5] claims to have isolated both from human and pig's plasma a protein-free fat-free substance which reduces, if it does not completely inhibit, abnormal hæmolysis in certain hæmolytic anæmias. He thinks that such anæmias may be due to a lack of some substance normally present in plasma, the function of which is to maintain the normal equilibrium between blood production and destruction.

Admittedly it is at present impossible to make a coherent story out of the varied facts recorded here. It is, however, a real advance to be able to record facts, rather than to elaborate arm-chair hypotheses, about the ætiology of the hæmolytic anæmias. It is clear at least that the mechanisms by which they arise are extremely diverse; extrinsic factors such as *p*H and temperature have their part, together with intrinsic factors such as red-cell abnormalities, while deficiencies and toxins may also be important.

ENDEMIC TYPHUS

TWO cases of typhus fever, of which one (in Bristol) is described on another page of our present issue and one (in Cork) in the January number of the *Irish Journal of Medical Science*, raise again the question of the reservoir that maintains this dread disease between its epidemics. The infection in the Bristol case may, it is true, have been imported from abroad and the arguments for its foreign origin are duly set out by Dr. ALLAN GRAY and his colleagues. But the Cork case seems to have been indigenous and to have appeared after eight years' absence of typhus from that city.

Extensive researches have been made of late, especially in Russia, in Poland, and among the Arab population in Tunisia, to fix responsibility for the persistence of the pathogenic rickettsia during periods when no trace of the actual human disease can be detected. Unlike enteric fever, which almost certainly depends entirely on the human chronic carrier for its continued existence, typhus has no such refuge; the rickettsias, present in abundance in the blood and tissues during the fever, disappear rapidly and completely as convalescence proceeds. The possibility of subclinical cases arising during the intervals between outbreaks has been suggested, and (as with measles, rubella, and mumps) this is a reasonable hypothesis. Yet all the observations are against it. Subclinical cases of typhus infection are not uncommon during epidemics and can be detected both by the development of serum reactions—Weil-Felix and direct rickettsia agglutination (Weigl's reaction)—and by the isolation of the virus from the blood. But in such cases the amount of virus in the blood is small and it disappears rapidly; lice fed on the patients with subclinical (as opposed to clinical) typhus seldom or never become infected. Furthermore during inter-epidemic times, even in a population subject to regular winter outbreaks, no subclinical case has ever been detected. Polish, Russian, and French observers are at one in denying to the subclinical human infection any rôle in the propa-

[1] Rhoads, C. P., *Proc. Soc. exp. Biol., N.Y.* 1937, **36**, 652; Rhoads and Miller, D. K., *Ibid*, p. 654; see *Lancet*, 1937, **2**, 1323.
[2] Dobriner, K., and Rhoads, *J. clin. Invest.* January, 1938, p. 95.
[3] Ham, T. H., *New Engl. J. Med.* 1937, **217**, 915.
[4] Dameshek, W., and Schwartz, S. O., *Ibid*, Jan. 13th, 1938, p. 75.
[5] Josephs, H. W., *Bull. Johns Hopk. Hosp.* January, 1938, pp. 25 and 53.

gation or persistence of the disease. Nor is there reason to think that the virus is harboured in its lean years by the lice themselves. The life of an infected louse is usually less than a fortnight, though one observer (MOSING) notes survival in full infectivity for 45 days at 32° C.—a period which might well suffice to maintain a smouldering endemicity in poorly supervised communities. But there is no transmission from louse to louse and, though infection to a second generation through the egg has been alleged, the general opinion now is that this does not take place. The discovery of the rat rickettsia infections and their occasional transmission to man, producing mild forms of typhus fever (Brill's disease, Mexican typhus, ship typhus), has suggested that the rat may be the original reservoir, and that in favourable circumstances, such as frequent transmission to specially susceptible human subjects, the rat rickettsia may rise in virulence, become capable of infecting *Pediculus humanus* in natural conditions, and thus set up the cycle of the classical typhus. In Tunis, however, rat rickettsiosis is extremely common but typhus in epidemic form non-existent, whereas in the neighbouring country true typhus is always present but no rat typhus can be found. This speaks strongly against such a transformation, at least as a happening common enough to account for the rebirth of human typhus year after year.

One factor, to which both GIROUD and MOSING attach great importance, is the effect of fatigue, famine, and other diseases in lowering the resistance of the human subject and, more important, in raising the amount of virus circulating in the blood which facilitates louse infection. It is possible that the final extinction of typhus, as of tuberculosis and leprosy, may come through the world-wide amelioration of the conditions of human life. It is certain that as long as human agglomerations can be found semi-starved and huddled together, as in some regions of Asia, Africa, and South America, so long will the threat of invasion with typhus fever hang over the rest of humanity.

ANNOTATIONS

CHEMOTHERAPY IN CANCER OF MICE

IN *Science* for Feb. 11th Dr. L. C. Strong of Yale describes an important development in his work on spontaneous mammary carcinoma in mice. The feeding of these animals on a diet containing a few drops of oleum gaultheriæ, harmless to normal mice, had previously been found to provoke a hæmorrhage into the tumours followed by a connective tissue reaction and by a slowing of their rate of growth. This was not due to methyl salicylate, for the synthetic compound was without significant effect. Fractional distillation of the true oil revealed that the responsible agent was in a fraction, containing heptyl aldehyde, which distilled at a comparatively low temperature. This fraction caused a longer survival time in the mice and a definite slowing in the growth of the tumours, with softening, sometimes liquefaction, and in 4 out of 34 cases complete regression. The addition of heptyl aldehyde itself to an otherwise normal diet has given remarkable results. Of the tumours in the first 25 test animals, 6 showed complete regression, and liquefaction was so pronounced in the remainder that sterile fluid could be aspirated through a hypodermic needle. The fact that the drug is apparently harmless to normal animals points to a high degree of specificity in its action.

Dr. Strong wisely makes no sensational forecasts, but his claim that the investigation opens up the possibility that "spontaneous tumours, in mice at least, may eventually be controlled by chemotherapy" is justified. We understand that no symptoms accompany the complete regression of the earlier tumours, but naturally the liquefaction of large tumours may lead to ill effects from hæmorrhage or toxic absorption.

FEVER AND INSULIN RESISTANCE

IT has been generally recognised since the early days of insulin that bacterial infection may substantially increase the insulin requirement of a diabetic patient. The reason for this decrease in sensitivity to the action of insulin has been a source of speculation and inquiry for many years, but no satisfactory explanation has been reached. The investigations of Houssay[1] and others on the relationship of the anterior pituitary gland to carbohydrate metabolism have shown that this gland has an important rôle in the regulation of the sensitivity of the body to the hypoglycæmic action of insulin. In the absence of the anterior lobe this sensitivity increases; while on the other hand injection of a suitable anterior pituitary extract will induce a resistance to the action of insulin administered intravenously to normal animals. It seems possible, therefore, that the anterior pituitary lobe is concerned in producing the insulin resistance that follows bacterial infection and Wien[2] has pursued this suggestion. As the secretion of the pituitary gland has a profound influence on the thyroid gland and on the adrenals, the part that may be played by these glands was also examined. It was found that the pyrexia following subcutaneous administration to cats, rabbits, and rats, of a killed culture of *Bacillus coli communis*, did not cause a rise of blood-sugar, but almost abolished the hypoglycæmic response to the subcutaneous injection of 0·5 unit of insulin per kg. of body-weight. In hypophysectomised rats, and in thyroidectomised or adrenalectomised rats and cats, the bacterial pyrexia was somewhat diminished in intensity, and had little effect on the insulin sensitivity. In rabbits, on the other hand, the bacterial pyrexia was little altered by removal of the thyroid or adrenal glands, and still diminished the response to injected insulin in the absence of these glands.

It seems probable from these results that the diminished rise of temperature caused by *B. coli* in cats and rats which lacked thyroid or adrenal glands is related to the failure of these animals to develop the insulin resistance which usually followed *B. coli* administration. The evidence suggests that the hypophysis, and the thyroid and adrenal glands, may all be concerned in the production of bacterial pyrexia and the resistance to the hypoglycæmic

[1] Houssay, B. A., *New Engl. J. Med.* 1936, **214**, 971.
[2] Wien, R., *Quart. J. Pharm.* 1937, **10**, 621.

action of insulin which normally accompanies it. How these glands influence both bacterial pyrexia and insulin sensitivity is still far from clear.

A HYPOTHETICAL CASE

A CORRESPONDENT has invited an opinion on a case which, for the purpose of abstract discussion, may be propounded as hypothetical. A women's journal provides among other features a weekly service of advice on general health, the management of pregnancy, and birth control. Subscribers who fill in a coupon can enrol themselves as members of a Health Club. They are then entitled to put their questions to a registered medical practitioner who either answers them directly through the post or gives printed replies in the columns of the paper. The registered medical practitioner has written a book explaining fully what are described as the various medically approved methods of birth control. In answers to correspondents the applicants are referred to this book and are informed of the price and the publisher's name and address.

The hypothetical point on which opinion is invited is whether a registered medical practitioner, writing regularly in a weekly or other newspaper under an assumed pen-name, is allowed to advertise his or her book in which he or she has a commercial interest. The practice, it is suggested on the one side, is one which might be dangerously extended to all sort of popular fads apart from the somewhat controversial topic of birth control. On the other side it might be said that many practitioners publish books in the course of an honourable professional career and are entitled to whatever advertisement or profit may result. In the hypothetical case propounded above, it may be said, the medical journalist is placed in touch with otherwise unknown and inaccessible patients through the medium of the newspaper. They may be drawn away from their own medical attendant. But notices in the hypothetical newspaper make it clear that the medical journalist does not pretend or desire to deal by correspondence with the treatment or diagnosis of disease; on these subjects the applicant is advised to consult her own medical attendant. The hypothetical answers to correspondents, too, usually begin by recommending the inquirer to go to a sympathetic doctor or to attend a clinic. Still the journalist is in effect using the system of the Health Club to advertise the already published book. Is this conduct to be described as unprofessional? If hypothetical cases can arouse any interest, what do our readers think?

REGIONAL COLITIS

IN the absence of a strict ætiological classification of non-specific ulcerative colitis, it has been possible only to group cases of this kind according to the severity of the invasion and the resistance of the patient. A further division was offered by J. A. Bargen in 1932 when he drew attention to a right-sided localisation of the disease in some 10 per cent. of all cases of so-called non-specific ulcerative colitis. In nine cases out of ten the condition involves the rectum and lower sigmoid and tends to spread orally over the various segments until the whole mucosal surface of the large intestine may be involved. Bargen, however, reported 23 instances of right-sided regional colitis and Crohn and Berg[1] give their findings in 17 others. It appears that nearly all the patients are between 20 and 30 years of age, and males predominate among them. In its gross and microscopic features the disease resembles ulcerative colitis as ordinarily seen in the terminal segments of the colon: there is diffuse ulceration of the mucosa, suppuration in the submucosa, and thickening and induration of all the coats of the bowel; in the late stage there may be polypoid hyperplasia. The disease behaves as though it were an infection, beginning with fever and prostration, and spreading proximally and distally. The bacteriology of the fæces or of tissue cultures taken from specimens removed at operation throws no light on its nature; the usual dysenteric organisms and protozoal parasites are absent. During the active stage there is diarrhœa, but this is rarely very severe, and there is not the urgency, nor the passage of blood-stained mucus with tenesmus that is so common when the rectum is seriously affected. Cramps, abdominal pain, fever, loss of weight, anæmia, and a tender palpable mass in the lower right abdominal quadrant are found; and radiography after barium enema gives a diagnostic picture of colitis; but there is not the "string sign" so typical of regional or terminal ileitis. American authors find primary ileocæcal tuberculosis of the hyperplastic type so unusual that it does not appear to be a stumbling-block in diagnosis. From the experience of Crohn and Berg this form of ulcerative colitis is not amenable to ordinary medical methods of treatment; they have operated on 14 cases and propose to operate on 2 more of the 17 they report. The usual methods of cæcostomy, ileostomy, and other procedures that make an artificial anus have been unsuccessful. The method preferred begins with anastomosis of the transected terminal ileum into the lower sigmoid; the remainder of the bowel then has its proximal end closed and its distal end brought up to the surface temporarily, and at a later stage the excluded part of the colon is removed by two or more operations. Thus the continuity of the alimentary tract is maintained without a permanent stoma. Five patients thus treated have done well.

[1] Crohn, B. B., and Berg, A. A., *Amer. med. Ass.*, Jan. 1st, 1938, p. 32

SUPERNORMAL PERCEPTION

PSYCHOLOGY has much to do in the study of individual differences, a field so little cultivated that there is still only a thin line dividing some of the unfamiliar extremes of human capacity from the mysterious and the miraculous. Synæsthesia in its more striking forms is almost as extraordinary to most people as second sight, the mathematical intuitions of an Euler or a Ramanujan scarcely less supernatural than magic. In remoteness from normal understanding there is little to choose between a prodigy—Mozart composing sonatas in his nursery or Koltanowski playing 34 games of chess blindfold—and, at a less credible level, a medium who levitates tables and reads thoughts. Mediums are not so rare as prodigies (though rather more expensive) and their apparent powers are well worth psychological study. Unfortunately a good deal of time has usually to be spent in demonstrating that they cannot work miracles. The University of London Council for Psychical Investigation has done much to bring "paranormal" manifestations into line with the known abilities of man, and a report[1] has just been published of an inquiry of this kind made under its auspices. In an excellently conducted and recorded series of experiments Mr. S. G. Soal has investigated

[1] Preliminary Studies of a Vaudeville Telepathist. By S. G. Soal, M.A., B.Sc. Bulletin III. London: University of London Council for Psychical Investigation. 1937. Pp. 96. 5s.

the alleged telepathic powers of Josef Kraus, known on the stage as Marion, whose remarkable performances had attracted the attention of Bleuler (the Swiss psychiatrist) and other eminent men. The most significant of Marion's accomplishments were the finding of a hidden object, and the recognition of any card he had held in his hand. The former, which he could undoubtedly achieve without trickery or any physical contact with anybody in the room, turned out to be attributable to his—one is tempted to say, preternaturally—sharp observation of the footsteps of a person walking behind him (who is aware of where the object is), or, if all the audience is seated, of their involuntary head-movements and changes of facial expression. His skill in recognising cards was unknown to him until Mr. Soal tried it. Marion attributed it to a faculty of clairvoyance, but it could be accounted for, after Mr. Soal's experiments, by supposing his acuteness of touch and his general alertness to sensory stimuli to be exceptional. These findings go further than their negative aspect suggests; the experiments did not merely dispose of some claims to the power of clairvoyance and telepathy, but they indicated also how highly perception may be developed. It is customary now to pay respect to the great clinicians who could diagnose and prognose so well, with few of the aids we find indispensable. They could hardly have done so unless they had possessed some of the qualities demonstrated in this stage telepathist. Most doctors would certainly like to know how one can train one's powers of perception and of inference from barely perceptible data. Psychiatrists, in particular, often depend on their aptitude for using the patient's expressive movements as clues to his state of mind. Such observations as those made on Marion are physiologically and psychologically important, and deserve to be carried much further. Unfortunately it costs a lot of money to take up the time of a successful vaudeville artist, and it is seldom that one can be found as complaisant and coöperative as Marion was.

A REMEDY FOR A VIRUS DISEASE

Dochez and Slanetz[1] describe experiments designed to determine whether a chemical agent, sodium sulphanilyl sulphanilate, will cure dog distemper. Their subjects were ferrets injected subcutaneously with nasal washings taken from dogs in the acute stages of the disease. In one experiment when the washings were unfiltered the control animal died in 12 days with typical symptoms of distemper, whereas the other ferret which received 0·5 gramme of the drug twice daily from the 5th to the 18th day showed no symptoms and survived until the 43rd day. In the other experiment, when the washings were filtered free from bacterial contamination, the control died on the 25th day with typical symptoms and a treated animal, receiving 0·5 g. twice daily from the 10th to the 26th day, showed no symptoms and was alive 57 days later. In the latter case the treated ferret had begun to show symptoms with a temperature of 104° F. on the day when treatment began. Two further experiments were done with dried virus; in these the control ferrets showed typical symptoms with fever, while the treated animals had no symptoms after the drug was given. These observations are very few in number but the results are striking in that cures were obtained when treatment started comparatively late after infection. Dochez and Slanetz add that 28 cases of natural dog distemper have been treated with 1·0 g. of the drug twice daily and only 2 of the dogs have died; also that the drug is active against cat distemper, which has been shown to be due to a different virus.

The structure of the new drug is very like that of sulphanilamide, and it seems likely that its mode of action on the infecting agent is similar. Sodium sulphanilyl sulphanilate is, however, freely soluble in water and the data show that it is eliminated very quickly; a dog receiving 1·9 g. intravenously had 320 μg. per c.cm. in the blood after five minutes, 32 μg. after two hours, and none after twenty hours. If these figures are compared with those of Marshall and others[2] for the elimination of sulphanilamide in the dog, where there is very little fall in the level in the blood in the first two hours, it will be seen that the new drug is much more quickly excreted. This suggests that it diffuses more readily throughout the animal body; it is probable also that the infecting virus is inside the cells of the host and therefore it would be less easily reached by a chemotherapeutic agent than an infecting bacterium.

Rosenthal[3] has already reported the successful treatment of choriomeningitis virus infections in mice with Red Prontosil, but this observation has not yet been confirmed. Rosenthal failed to get an effect with any of the other sulphanilamide compounds; also influenza virus and encephalitis (St. Louis) virus infections were resistant to all treatment. Dochez and Slanetz's paper is the only other report of successful chemotherapy in a virus disease, and its importance lies in the fact that if these findings are correct other diseases due to virus infections may be found amenable to similar treatment.

CHILDREN'S TEETH

UNDOUBTEDLY there are several factors that can influence the structure of teeth and the incidence of caries. Those who have been impressed with the part played by one factor have usually seen instances of perfect dentition contravening their theory—the cleanest tooth has been known to decay. Prof. Talmage Read and Miss E. M. Knowles[4] therefore set about the study of caries not by watching the effect of varying one factor but by inquiring into as many variables as they thought relevant. They examined 2894 elementary school-children, classifying them according to the incidence of caries. They then recorded the diet, nurture, and habits of small groups of children selected for their good or poor teeth. The proportion of children with complete dentitions and freedom from caries was extremely small, ranging from 6 per cent. at the age of six to 0·6 per cent. at nine and 4 per cent. at thirteen. This latter rise was due to the loss of deciduous teeth. Read and Knowles found over 50 children remarkably free from caries but for convenience they selected 12 of these for special study, contrasting them with a similar group showing extensive disease. The healthy group ranged in age from five to fourteen. Their economic circumstances varied, but the careful and intelligent manner of upbringing was commented upon as a characteristic of the group even in the poorest child. Infant feeding appeared to be imperfect in only 1 case and this had been followed by imperfect structure of the permanent teeth; 7 had been breast-fed and the other 4 had received vitamin supplements to their bottle-feeding. The general

[1] Dochez, A. R., and Slanetz, C. A., *Science*, Feb. 11th, 1938.

[2] Marshall, E. K., Emerson, K., and Cutting, W. C., *J. Amer. med. Ass.* 1937, **108**, 953.

[3] Rosenthal, S. M., Wooley, J. G., and Bauer, H., *Publ. Hlth Rep., Wash.* 1937, **52**, 1211; see *Lancet*, 1937, **2**, 810.

[4] *Brit. dent. J.* Feb. 15th, p. 185.

diet was well balanced with adequate protein, fat, and green vegetables; all but 1 were given additional milk; every child had fresh fruit, particularly apples, daily, and 7 took fruit abundantly. Meals were regular, there was no eating between meals, and the children enjoyed chewing hard foods; cod-liver oil was taken by all but 3 in varying amounts, and the consumption of sweets and other fermentable carbohydrates was very limited. All the children were nose-breathers; only 2 had used the baby comforter, and all brushed their teeth, 8 of them several times daily.

The corresponding group of 12 children with extensive caries formed a striking contrast to the others. The ages ranged from three to fourteen and the economic circumstances, though on the whole not so good as of those in the other group, were not limited to the poorest class. The intelligent management of the diets and feeding of the children was not as evident as in the first group; infant feeding had been unsatisfactory in the large majority and the general diets were deficient in protein and fat; vegetables were decidedly lacking and the consumption of fresh fruit not so abundant as in the other group. All the children had had additional milk but only 6 had been given cod-liver oil even for varying periods. They had all had an abundance of sweets daily, as well as fermentable carbohydrates such as biscuits. A comforter had been used by 6 children—one for 5½ years—and in 5 with extensive caries of the deciduous teeth sugar had been applied to it. There were 6 mouth-breathers and the mouth hygiene was generally unsatisfactory, only 2 children using the toothbrush daily.

The possible influence of heredity was considered but the information obtained did not support this factor: children in the same family showed variations according to differences in their diet and habits.

USE OF NITROUS OXIDE BY MIDWIVES

MANY midwives and pupil midwives are now having instruction in the induction of gas-and-air analgesia during childbirth. This is the natural and desired corollary to the action of the Central Midwives Board after their inquiry conducted with the aid of the British College of Obstetricians and Gynæcologists. It is too soon yet to assess the advantages that may be reaped from putting nitrous oxide into the midwife's hands, and it is far too soon to discern any influence this might have on the birth-rate. The sceptic may add that it is also too soon to estimate the dangers that have been created by turning the midwife into a "kind of anæsthetist." These dangers should be reduced to a minimum by the machines put at their disposal. It would need a good deal of carelessness, stupidity, or wilful misuse to bring a patient into danger by means of the Minnitt machine or the Queen Charlotte's gas-air apparatus. These two are at the moment, we believe, the chief if not the sole occupants of the field. It is interesting to hear that one of the former kind was used at the recent royal confinement in Holland, and that a large number of British gas-and-air machines are being bought abroad. The chance of these machines falling into disfavour does not lie, we think, so much in any risk involved in their use as in their occasional inadequacy. A proportion of women are not susceptible to the comparatively feeble aid which is all that such "safety machines" can supply. The conscientious midwife unable to fortify an insufficient anæsthetic may become impatient with the machinery that provides it. But this would be a pity, for the machines show that much trouble and ingenuity have been expended in making them as simple, as portable, and as effective as possible within the limits prescribed by safety. Weighing only 18 lb., complete with cylinder, such an apparatus can readily be carried on a bicycle over the back wheel. The British Oxygen Company have issued a pamphlet that illustrates attractively the essential points in their equipment as well as giving a just appreciation of its powers and hints how best to call them forth. The lively discussion about the relative merits of short inhalations of undiluted gas, and prolonged inhalation of gas-and-air, which is being conducted by Prof. Chassar Moir and Dr. R. J. Minnitt in the *British Journal of Anæsthesia*, does not affect the questions we have alluded to, for administration of the pure gas is not recommended to or available for the midwife.

THE DECLINE IN THE POPULATION

IT was perhaps inevitable that last week's discussion by the section of obstetrics and gynæcology of the Royal Society of Medicine should have drifted away from the purely medical aspects of population towards the more interesting—because more arguable—social and economic aspects. The proposition that children can be secured merely by paying women to have them, or (what amounts to the same thing) by penalising childless couples financially, came in for some rough handling. In the first place, the success of this policy abroad may perhaps be temporary, and is by no means yet established; in Germany, for instance, the large previous decline in first and second births has been made good, but the regular production of the third child has still to be accomplished. Secondly, relative economic prosperity seems to lead to fewer rather than more births. One speaker was told in New York in the boom period of 1926 that "contraceptives are being used now by everyone except Catholics and lunatics"; another speaker had ingeniously ascertained from "Who's Who" the number of children born to one hundred persons, married for at least twenty years, each of whom had left more than £100,000, and had found that the average was only 2·3, although presumably all economic restraint had been removed and a third of these persons had the additional incentive of a hereditary title to transmit. Again it is certain that in a working-class community an extra child is—or perhaps was—looked upon as an extra insurance against old age which more than balances the extra mouth to be fed in childhood. As Prof. A. M. Carr-Saunders rightly emphasised, the decline in the population is due to many and complex causes and therefore the remedy—if one is to be sought—cannot be simple. There may be a decline in the capacity for child-bearing, a cycle of infertility; there may be a decrease in intercourse, both within and without the marriage tie; conception may be prevented; or finally the result of conception may not be a birth.

The medical causes of failure to conceive were dealt with by Mr. Eardley Holland, and his paper showed what a change has come over the attitude of British gynæcologists towards sterility. Less than ten years ago a round of London gynæcologists by a childless married woman resulted in dilatation and curettage with tubular inflation, after which no one had much to offer except hope. The husband was seldom examined. Yet now Mr. Eardley Holland was talking of multiple and complex fertility factors and saying that in both the male and the female constitutional factors are more important than local and

that in 40 per cent. of sterile unions the semen shows obvious defect. He suggested that any delay in the onset of menstruation should be treated by gonadotropic pituitary hormone to prevent genital hypoplasia and subsequent sterility. Prof. J. C. Drummond, speaking as a biochemist, suggested that the fall in fertility might be due to a shortage of vitamins B_1 and E in the national diet, due to the consumption of white bread. Although this theory evoked criticism, the general impression left by this part of the discussion was that it should now or very soon be possible, by means of the newer hormone and vitamin therapy, to prevent a large proportion of involuntary sterility. Dr. R. R. Kuczynski emphasised our statistical ignorance of the problem. We had no knowledge whatever of the proportion of wives marrying under the age of thirty in England who remain childless. Nor would the position be very much better when the first statistics resulting from the new Population (Statistics) Bill came to hand. These new statistics would tell us a great deal about the births that occur but very little about the births that do not occur. It seems clear that, whether or not we believe that the decline in the population is a disaster, there are two main tasks for the medical profession to perform: first, the enlightenment of public opinion, to allow of statistical and other research so that the true position may be known; and secondly, the successful treatment of sterility and early abortion so as to eliminate the involuntarily childless marriage. On the larger issue, a fall in fertility seems to be a phenomenon of civilisation. Childbirth is a primitive function and with the life-saving knowledge that comes with civilisation, may there not also come a loss of the fertility no longer needed to compensate for the heavier wastage of uncivilised communities?

THE MANAGEMENT OF DIABETIC OUT-PATIENTS

THE increasing incidence of diabetes was the subject of comment at a meeting of the London and Home Counties branch of the Medical Superintendents' Society held at County Hall, Westminster, on Jan. 20th. Dr. H. P. Himsworth quoted from the registrar-general's reports for 1936 figures to show that deaths from diabetes were as numerous as those from all infectious diseases put together and were rising steadily. At his own clinic at University College Hospital, Dr. Himsworth said, the diabetic patients were increasing at the rate of about 200 new patients a year; the admissions last year were 65, out of a total of 900 attending for this disease; 100 more patients were scattered in other departments of the hospital, with a 50 per cent. admission-rate. The organisation of an efficient clinic under one head to secure continuity of treatment involved the coöperation of a dietitian prepared to give simple explanations and to take the financial position of each patient into account; a chiropodist to supervise the care of the skin and to advise on footwear, in order to prevent gangrene; a radiologist to make annual examinations of the chest, since the prognosis of pulmonary tuberculosis was at least as good as in non-diabetics if the diagnosis was made early; and a technician for urine analyses. Dr. Himsworth saw no need for casual blood-sugar estimations, but regarded glucose-tolerance curves as often essential for diagnosis. He placed great reliance on the ferric chloride test for acetone bodies. Whereas the nitroprusside test (positive at about 1 : 400,000) is very sensitive, a positive ferric chloride test is found at concentration of about 1 : 1500 and provides a most useful warning of imminent coma and indication for immediate admission; if the patient is able to swallow he is given glucose 50 g. and 25 units of insulin every three hours until the urine is clear of acetone bodies. About 100 patients, including about 6 new cases, can be dealt with in one session. The coöperation of district nursing associations is of great importance. Patients are weighed at first daily, later weekly. Treatment is by diet alone for the first week if there is not much acetonuria, and later insulin is started if acetone is present. Dr. B. A. Young spoke of the effect on prognosis of the financial position and intelligence of the patient, and of the skill of his medical attendant. Continuity of treatment was an important factor and the cultivation of good relations between the clinics and practitioners and district medical officers was of great benefit to the patients. The cheapness of high carbohydrate diets compared with high fat or protein diets was worth noting in planning the treatment of patients in poor localities. The initiation of definite schemes by large municipal authorities and the widespread organisation of centralised clinics would do much to encourage continuity and standardisation of diabetic treatment.

TESTOSTERONE IN THE TREATMENT OF PAINFUL BREAST

THE use of œstrone in the treatment of mastodynia and cystic disease of the breast was considered in a leading article in our issue of Feb. 5th when certain hypothetical drawbacks to its administration were mentioned. We then referred to the possible advantages of employing testosterone for the same purpose, and it may be of interest to review one or two reports that have already appeared on its application in practice. Desmarest and Capitain [1] gave testosterone acetate by intramuscular injections. The first dose, they think, should be administered about two days before the pain is expected, and repeated at two-day intervals up to six injections. Their doses range from 5 to 10 mg., the latter being the maximum. They avoid giving testosterone during the ten days following menstruation and two days before its onset. Turpault,[2] from an experience of 53 cases, recommends the treatment of mastodynia with testosterone propionate in doses of 10–30 mg., except in young girls who, he finds, are often very sensitive to testosterone; for these he prefers a dose of 1 or 2 mg. The injections are made on each of the three days preceding the expected onset of pain. Turpault classifies cases of mastodynia into three categories:

(i) Symptoms appear between 12th and 8th day preceding the menses and are caused by excess of œstrone.

(ii) The symptoms come on from the 8th to the 3rd day before the menses, and are perhaps due either to an excess of progesterone or a deficiency of œstrone.

(iii) The pain sets in on the 3rd, 2nd, or 1st day before menstruation and is the consequence (Turpault suggests) of a fresh output of œstrone under the renewed activity of the pituitary, the corpus luteum having ceased to exert its inhibition.

Testosterone, he finds, almost always gives good results in cases belonging to groups (i) and (iii), but in those of group (ii) it fails to cure and often aggravates the symptoms. Bender [3] has treated 12 cases of mastodynia with testosterone propionate. In 4 of these he obtained complete relief, and in 6 considerable alleviation, while 2 were failures. Both of these failures fall into group (ii) of Turpault's classification, the onset of pain having been 8–9 days before the menses in one patient, and 12–15 days after the

[1] Desmarest, E., and Capitain, Mme., *Pr. méd.* 1937, **45**, 777 and 1109.
[2] Turpault, M., *C.R. Soc. franç. Gynéc.* 1937, **7**, 181.
[3] Bender, X., *Ibid*, p. 222.

preceding period in the other. Two of his successful cases had been treated previously with œstrone benzoate with relief of symptoms at first but recurrence later. Dr. A. Loeser, in our issue of Feb. 12th, has also reported favourably on the use of testosterone propionate. His two cases appear to have been more advanced and he used larger doses than the other clinicians we have quoted. It is interesting to note his observation that 180 mg. given in the course of six weeks inhibited menstruation which was resumed after the injections were withheld.

New forms of treatment often are extolled beyond their merits, and a much larger experience of testosterone as a remedy for mastodynia must be awaited before its value can be estimated. Meanwhile one definite contra-indication to its use may be mentioned —namely, pregnancy. Experiments have shown that the administration of testosterone to pregnant animals is apt to cause delayed parturition, death of the fœtus, difficulty in suckling, and certain embryological deformities; the free-martin is an example of this sort of action. Even though the doses used in human therapeutics may be thought far too small to cause any such untoward consequences, there is no certainty about this; it would be an unhappy position for everyone concerned if injection of testosterone during pregnancy were followed, whether through pure chance or not, by any of the mishaps mentioned. Apart from pregnancy, and with the precautions already mentioned, there seems to be no particular contra-indication to the use of testosterone for the treatment of cases of mastodynia.

BLOOD-GROUP EVIDENCE

THE characters that determine the human blood groups are inherited as Mendelian dominants, and therefore a child cannot have a blood character not possessed by one of the parents. By the use of tests for the A and B, M and N characters of the mother, the child, and the alleged father, it is possible definitely to exclude paternity in about one-third of the cases where the man is not the real father. The scientific basis for the rules of inheritance is now unassailable; that underlying the result of any particular test is nearly so if the pathologist is competent and experienced. The judicial use of the tests has been delayed in this country for want of special legislation, but in Germany it has been practised on a large scale for many years. Prof. G. Schrader[1] expresses the interesting opinion that the characters A_1 and A_2 can now be differentiated so precisely that evidence can be based on their detection. The difference lies in the strength of the receptors holding the antibodies in the corpuscles: in the A_1 group they are strong and in the A_2 weak. He is satisfied that these characters are fully autonomous and not merely subgroups, also that there are no gradations between them. The technique of differentiating between them by capillary absorption has now been crystallised on practical lines. It is not, however, quite to be trusted until the child is six months old and the receptors have reached their full strength. The legal significance of this advance is that if the child's group is A_1 and the mother's is A_2, the father's cannot be A_2 or O, and if the mother's is O his cannot be A_2. The evidence for distinct B_1 and B_2 factors is not forthcoming, but there seems to be an N_2 in a few rare cases in conjunction with M, as N_2M. Evidence based on either of these weak factors must of course be independently checked. The possibility that they may be missed does not compromise an exclusion of paternity based on the existence of other factors, but only means that if they are missed a man is not excluded who might have been excluded if they had been found. Prof. Schrader also points to the need for strict rules governing the identification of samples and the checking of results. If Parliament is to be asked to give magistrates discretion to make submission to the test a condition of hearing an application for an affiliation order, the scientific authorities must be ready with convincing proof that their contribution is thoroughly reliable. The German courts now repose great confidence in the experts, so much so that Prof. Schrader cites a case in which a girl was sentenced to a year's imprisonment for perjury on a blood-group exclusion alone, although she was a convincing witness, the man was an unconvincing one, and she brought a number of witnesses to support her case. The verdict was confirmed by her confession that she had chosen the man as being more likely than the real father to be able to pay.

[1] *Med. Klin.* Feb. 4th, p. 141.

A SUBSTITUTE FOR ŒSTRONE?

SOME do not want to hear about mysteries till they are solved. Others hang on the detective's lightest word, or rush to read the novelist's latest instalment. Those in the latter group at least should find pleasure in a remarkable investigation whose progress is being recorded from time to time by Prof. E. C. Dodds and his associates in the columns of *Nature*. The object pursued is a synthetic œstrogenic hormone that can be used instead of œstrone itself and can be obtained more readily. The first surprise was encountered when it was discovered that substances having almost no structural relationship to œstrone were to some extent œstrogenic.[1] It later proved that derivatives of stilbene were remarkably active, though the quantities required remained in the region of milligrammes rather than microgrammes. A solution seemed to have been found when the investigators tried *p*-hydroxy-propenyl benzene or anol. They reported its œstrogenic activity as 1 μg.[2] and this was confirmed by a few workers abroad. Others however declared the substance to be wholly inactive and implied that a mistake had been made. Reinvestigation showed that the activity was always present in the mother liquor and it was concluded that the activity was probably always due to a polymer of anol which had adsorbed on the anol itself.[3] At this stage in the inquiry the Middlesex Hospital workers joined forces with Prof. R. Robinson, F.R.S., of Oxford, and the latest instalment of the serial[4] records joint work in the two laboratories. The most potent substance so far found is the 4 : 4′-hydroxydiphenyl-α : β diethyl stilbene, which has an activity three times that of œstrone. The two formulæ published are striking in showing the high activity of the stilbene compound and the relatively low activity of the chrysene compound in which the two middle rings are closed. The question directly arises whether the new product can replace œstrone in clinical practice. Of far greater potential importance however is the demonstration that a substance chemically very different from œstrone has even greater œstrogenic activity.

ON March 3rd, 8th, 10th, at 5 P.M., Dr. C. C. UNGLEY will deliver the Goulstonian lectures to the Royal College of Physicians of London. He will speak on some deficiencies of nutrition and their relation to disease.

[1] Dodds, E. C., and Lawson, W., *Nature*, 1936, **137**, 996; Cook, J. W., Dodds, and Lawson, *Proc. roy. Soc.* B, 1936, **121**, 133.
[2] Dodds and Lawson, *Nature*, 1937, **139**, 629.
[3] Dodds and Lawson, *Ibid*, p. 1068.
[4] Dodds, Golberg, L., Lawson, and Robinson, R., *Ibid*, Feb. 5th, 1938, p. 247.

SPECIAL ARTICLES

SOME ASPECTS OF WORKMEN'S COMPENSATION

THE departmental committee "on certain questions arising under the Workmen's Compensation Acts" have issued a report[1] divided into three separate parts dealing with different problems. The first part concerns

Miners' Nystagmus

The present position in relation to this disorder is regarded by the committee as unjust to both employer and disabled miner. It is held to impose an unnecessary burden on industry, to cause a lack of uniformity in the treatment of sufferers, and by promoting anxiety on their part to increase and prolong disablement. The committee's recommendations include the limitation of certification to those men in whom oscillations of the eyeballs are actually present, and persist for 15 seconds when tested in the dark after stooping exercises. The policy of excluding from employment underground men who have ever suffered from nystagmus is regarded as unjustifiable, and the committee welcome the changed attitude of employers in this respect, quoting with approval the agreement reached in the South and West Yorkshire districts. They recommend that employers in all districts should be urged to take back men who are certified or agreed to be fit for work and that in the event of refusal some form of official intervention should be undertaken. As to the medical machinery for dealing with cases, the committee contemplate that the certifying surgeon shall continue to act, but that the powers and duties heretofore exercised by the medical referee and additional powers and duties shall be vested in medical boards consisting normally of an ophthalmologist and a physician to be set up in various centres under the Home Office. The cost of such boards should be borne by the industry with a contribution from the Exchequer. It is recommended that the Home Office should compile a panel of medical practitioners appropriately qualified and willing to serve on medical boards in the various areas. The objects and duties of the proposed medical boards—which include ascertainment, supervision, instruction, and reassurance of affected workmen, and recommendations for their future—are defined. The medical board should have a discretionary power to declare unsuitable for further employment at the coal-face any miner under 30 who becomes disabled by miners' nystagmus. In order to secure as much uniformity as possible in practice in dealing with men who may be regarded alternatively as (1) recovered or (2) susceptible to further attack the committee recommend that liability shall continue to attach to the original employer for a specified period of years (either two or three). They also recommend that insurance against all liability arising out of miners' nystagmus should be compulsory.

Finally, they emphasise the fact that miners' nystagmus is an industrial disease which possesses features of a peculiar and distinctive character and that the exceptional arrangements suggested are not to be regarded as a precedent.

[1] Report by the Departmental Committee on certain questions arising under the Workmen's Compensation Acts. H.M. Stationery Office. 1938. Pp. 115. Cmd. No. 5627. 2s. The medical members of the committee were Dr. J. C. Bridge and Mr. John Gilmour.

AN UNSOLVED DILEMMA

On the whole the recommendations appear to us excellent, especially the emphasis placed upon the need for speedy re-employment of the nystagmic miner, for he is often disabled only for work down the pit and should not be allowed to suffer deterioration by idleness—a fate that in the past often befell men who were anxious to maintain their self-respect as members of a working community. It is on the question of diagnosis that the committee have come up against a serious difficulty, which they explain by quoting the following extracts from the third report, issued in 1932, of the committee of the Medical Research Council.

"A high percentage of the men (at some mines 34 per cent.) were found to have oscillation of the eyeballs but to be working efficiently without complaint, while on the other hand the absence of this symptom in the presence of symptoms of a nervous or psychological kind was not sufficient proof of fitness for work. The criterion of incapacity is not easily determined." . . . "The large number of compensation cases was due chiefly to psychological conditions. The situation should be handled on the medical side by emphasising the analogy between this condition and the condition once known as 'shell shock' and by combating the belief that the psychoneurotic symptoms can be a direct physical result of oscillation of the eyeballs; . . ."

These views plainly mark a new approach to the disorder and, though offering no easy solution to the difficulties of diagnosis, give an indication of how these have arisen. The psychoneurotic symptoms are an important factor in the disability, and the degree or even the presence of oscillation is no measure of their severity. Yet attention has been hitherto concentrated upon the oscillation, its disappearance being often heralded as a sign of recovery whilst the psychoneurotic symptoms—except those directly ocular—are ignored. The departmental committee note (p. 10) that the percentage of men with oscillation varies in different pits from about 5 per cent. to upwards of 34 per cent., whilst the fresh cases of compensation in any one year have never exceeded 0·45 and have been as low as 0·25 per cent. An ingenious explanation is offered that men become disabled because they are not able to acquire the capacity of correctly interpreting the apparently moving image; but that only shifts farther back the answer to the obvious and important question why only such a small percentage of men with oscillations should suffer from symptoms. On p. 19 is a statement, undoubtedly true, that there have been placed on the compensation list cases of psychoneurosis wholly unrelated to miners' nystagmus. But there is another aspect of the same problem: if one of the many men with oscillation develops a psychoneurosis, who shall say whether it is or is not related to miners' nystagmus? It may be that our fundamental conceptions as to the nature of the disorder call for revision.

In spite of the warning given by the committee of the Medical Research Council against the belief that the psychoneurotic symptoms can be a direct physical result of oscillation of the eyeballs—a warning in accord with modern teaching—we read (p. 27) that:

". . . the disorder begins to be disabling when the nervous system becomes affected by the oscillations. This means that the evidence of disablement lies

in subjective phenomena rather than in objective; and the question of the reality and severity of the subjective phenomena may often depend to a large extent on the patient's statement."

The precise meaning of the term "nervous system" as here used is doubtful, but the paragraph seems to refer to psychoneurotic symptoms and follows immediately upon the recommendation, noted above, that a case may properly be certified if, when tested in the dark after stooping exercises, oscillations are found to persist for at least 15 seconds.

The committee have thus failed to find a means of escape from the old dilemma. If certification is based upon the presence of oscillation it is nevertheless necessary to examine the man on an entirely different principle to ascertain whether he is disabled; he may be equally disabled by psychoneurotic symptoms, but in the absence of oscillation he is not suffering from miners' nystagmus but from some other disease. The dilemma is not of our creation; it is an inheritance from the days when the recognition and diagnosis of psychoneurotic states were not matters of clinical interest, and the escape from it is not clear. To approach each case from the psychological side is not practicable at present, and to grant compensation in cases of psychoneurosis, with or without oscillation, without adequate examination and handling—which is what we have been doing—is not fair to the employer, the workman, or to the community. What is really the connexion between oscillation and psychoneurosis, whether a man suffers disability because he is psychoneurotic or whether it is possible for disability to occur without a psychoneurosis, are only some of the questions that call for answers, and to obtain them it is plain that the old conceptions need a more drastic revision than they have yet received.

General Medical Procedure under Workmen's Compensation Acts

The second part of the report deals with the committee's inquiries into the system of medical examination and certification by the medical referees and certifying surgeons in force under the Workmen's Compensation Acts, and into procedure and arrangements for ascertaining and supervising the physical condition of the injured workman. The recommendations made are that (1) the existing machinery must be amplified and strengthened, (2) there must be a right of appeal against the decision of medical referees, (3) the medical issues should where possible be settled by medical machinery and should not be the subject of litigation. At present any difference of opinion between the advisers of the workman and those of his employer may be referred to the medical referee for decision or may go to arbitration. It is suggested that in future all differences of opinion should be referred to the medical referee, with a right of appeal from his decision to a medical tribunal of appeal composed of three practitioners including one specialist; this tribunal would conduct a medical examination in private, and its decision as to fitness for work would be final. Witnesses as to fact but no medical witnesses would be called before this tribunal and this is a recommendation which may not be generally acceptable. In the present procedure in the county court medical witnesses on both sides are subject to examination and cross-examination by counsel who, in the London area at any rate, are generally specialists in Workmen's Compensation. It is usual to call evidence as to the work required to be done by the workman and then to confront the medical witnesses with this evidence; and it is often found that a medical witness is unable to sustain a previously expressed opinion that the man is fit to return to his work when he hears a description of the work. If the recommendations made in this part of the report are to be an unqualified success there is a definite need for more medical education upon the subject of estimating capacity for work. Probably more than 90 per cent. of medical practitioners are called upon periodically for certificates of fitness for work. The sort of question that they should be taught to answer is one that does not appear in examination papers on forensic medicine, though it is much more relevant to the doctor's future work than many of the questions he has to answer. For example: "A man aged 24 met with an accident on Jan. 2nd, 1938, and sustained a Colles fracture of the right wrist. You examine him for the first time on Feb. 19th. How would you determine his fitness or otherwise to do his work (*a*) as a wood-working machinist, (*b*) as a window cleaner, (*c*) as a professional Association football player?" The doctor of the future should learn the answers to such questions.

Lump-Sum Settlement

The committee note, in the third part of their report, that lump-sum settlement by agreement is generally popular with workmen, employers, and insurers, and recommended therefore that this principle should be maintained.

The evidence quoted in its favour appears to be a matter of opinion. Witnesses seemed to take the view that the condition of patients, particularly of neurasthenics, improved after a lump-sum settlement of their claim, although those witnesses who represented the Ministry of Pensions dissented from this view. Most of the witnesses knew of workmen who had lost or squandered their money, "but they were generally of opinion that such cases were relatively few and tending to become fewer," and the committee conclude that the proportion of these to the cases of lump-sum settlement is small. This conclusion is astonishing in view of the facts and figures available, which are at variance with the findings of the committee. Most of the States of America have investigated the subject and figures given in the report issued by the rehabilitation division of the New York City Education Department in 1936 support the evidence given by witnesses from the Ministry of Pensions rather than the conclusions drawn by the committee. These figures concern 322 men whose claims had been settled by lump-sum payments of £200 or more, and who were followed up for a period of three years. There is no indication that the results of this or any similar study were before the departmental committee and it is possible that their conclusions are based on insufficient evidence. In any case some distinction in their report might have been made between "settlement" and "lump-sum settlement." The settlement of a claim can be effected by awarding a sum of money to be paid out by the court in weekly payments. If it is made clear to the workman that this money will be paid to him until it is exhausted, whether he is at work or not, all the therapeutic benefits of settlement are obtained without the overwhelming disadvantage of handing over a large sum of money to a workman who is mostly unfitted by education, training, and environment to handle it.

GRAINS AND SCRUPLES

Under this heading appear week by week the unfettered thoughts of doctors in various occupations. Each contributor is responsible for the section for a month; his name can be seen later in the half-yearly index

FROM A HOSPITAL PHYSICIAN

IV

THE care of the aged is often so unsatisfactory that the old horror of "the workhouse" is still evident. No doubt it is largely due to the natural aversion of an old person from a change of life that is likely to be final, but I feel sure that it could be mitigated by a little regard for the conditions under which the aged are nursed in public institutions. A particularly unpleasant parsimony is to confiscate the whole of the old-age pension, often leaving a friendless old man or woman dependent on private charity for even a penny postage stamp.

A serious effort has recently been made by some councils—notably in Middlesex and Cheshire by the conversion of country mansions, and in Manchester by the provision of flats—to improve the care of the aged and infirm; but for the most part the only alternative to a bleak infirmary ward lies in the almshouses provided by charity, which serve only a very small minority. "Independent" working women are peculiarly handicapped by illness, in a way that is occasionally regarded very callously by public assistance authorities. Unable to pay rent out of their resources while in hospital, they are sometimes "sold up" if the illness is likely to last more than a few weeks. When, as is often the case, their livelihood is the keeping of lodgers, this may spell for them a permanent "workhouse life"; for when they are fit to leave hospital their capital (furniture and goodwill) is gone.

* * *

The public mental hospitals are in no better position than the general, but rather the reverse as regards staffing and overcrowding. One institution in the Midlands invited applications for appointment as medical officer in 1936, advertising itself as having 1800 beds "set apart for the reception of all classes of mental and nervous disorder" with an admission-rate of 1500 a year, and an existing staff of 4 doctors! This is an extreme but not an isolated example. When 90 per cent. of mental disorders are treated in public institutions which are understaffed to this extent, it is scarcely surprising that research in mental disease lags behind other branches of medical research, and that treatment is almost entirely empirical.

Incidentally it seems to me that neither the medical profession as a whole nor public authority deals fairly with the parents of mentally defective children. Many doctors withhold the diagnosis (either from cowardice or from a mistaken idea that to defer the information will cause parents less distress) until affections are deeply involved. Experts with much experience are agreed that mentally defective children are happiest in the company of other defectives, but doctors rarely give positive advice to parents to send their children to institutions, and in the absence of advice few parents have the courage to act on their own initiative. In place of this course, which is the only proper solution, much advice of an unthinking kind is distributed about "forming habits" and the like, and hopeless efforts are made to turn an imbecile into a scholar. With complete disregard of the suffering of parents, "interesting cases" are sometimes kept on the books of an out-patient clinic in order that the director may have the opportunity of displaying some characteristic syndrome to students from time to time.

Institutional facilities are themselves, however, often lacking. After school age is reached the education authority will assume some responsibility—but how often this relief to parents and teachers is delayed! For children under five there is scarcely any provision, and if some doctor or nurse takes unusual pains over a working-class child, and secures his admission to one of the general infirmaries of the public assistance or public health authority, he will often be "discharged" after a few weeks by an official who is either hardened by common usage or forced by lack of accommodation. The child is sent back to his unfortunate and defenceless mother, who is thus made to remind herself daily of the tragedy and to occupy herself with the heavy labour of his care, to the neglect of her normal children. This aggravation of unavoidable distress the middle-class family never suffers except as a masochistic self-infliction.

* * *

An outstanding defect in hospital administration—inexcusable in the municipal services, and only very partially to be condoned in the voluntary—is lack of coördination. The London County Council, with over 40,000 beds under its control, in upwards of 50 different hospitals, has made some progress in this direction and the Voluntary Hospitals Committee in London has now put forward a proposal for a sort of clearing house for emergency cases. But in most cities there is no regular coöperation whatever, no central office which can act as a bureau of information, allot cases and easily transfer them, and no common meeting-ground for administrative officers and technical staffs. The records of a person who has attended one hospital (whose case has perhaps been investigated at the cost of much thought and expenditure of energy and money) are *never* available for use at another: at the best, an abstract is prepared if the doctor in charge of the patient at the second hospital is sufficiently inquisitive and if the registrar or clerk at the first has a filing system capable of producing the records. Each institution is regarded as a separate unit, fighting its own battles—often against its neighbours!

A patient, or a mother with a sick child, may visit two or three different hospitals in widely separate parts of the city before gaining admission, and be only grudgingly received in the end by an already overcrowded institution whose staff consider that the case rightly belongs elsewhere. One could multiply ad infinitum the minor disabilities that present hospital administration inflicts upon patients—the hours frittered away, often at the cost of a day's wage, in waiting-rooms, the failure to notify relatives that wards are closed to visitors, the complacent ignorance which assumes that they are able to pay for several miles of transport, the unnecessary exposure to infection, the lack of privacy and injury to self-respect which custom allows. These things would mostly be changed if those in authority had the imagination to place themselves in the position of those for whose discomforts they are responsible.

* * *

Hospital administration cannot be static. Every increase of medical knowledge, every advance in

social science, necessitates adjustment, and present standards of administration lag far behind the level accepted by medical opinion as implementing the results of research—behind even the opinion of the uninstructed, who do not require special knowledge to realise the imperfections. Such opinion, however, is rarely vocal. Patients and their friends, preoccupied with the fear of death or disablement, are inclined to be lenient; for them, hospital service is merely the best obtainable in their time of need, and deficiencies are forgotten in gratitude to the individual doctors and nurses upon whose efforts recovery depends. A protest, under such circumstances, against even glaring inadequacies, requires a rare independence of character, especially when the protest has to be made firstly to individuals who are seldom to blame and who tend to regard it as criticism of their own behaviour.

Pneumonia is an infectious disease, legally notifiable; yet patients with pneumonia lie in beds 2 ft. removed from others in wards containing up to 30 cases of all descriptions. At the season when pneumonia is particularly rife and therefore particularly infectious, the wards are often filled beyond their normal capacity by the erection of extra beds. Cross-infection is by no means unknown and pneumonia has a death-rate of anything from 20 to 50 per cent. Gastro-enteritis in infancy is a highly fatal and highly infectious disease: infection of the respiratory tract can be transmitted with ease across a 20-ft. ward and endanger life either directly through broncho-pneumonia, mastoiditis, and meningitis, or indirectly by setting up a gastro-enteritis. Yet both are nursed in open wards in hospitals, and usually by a staff quite inadequate in numbers and training to take full advantage of such technique as can be contrived to minimise the risks of contagion. The standards set by such authorities as S. F. Dudley and E. H. R. Harries for bed-spacing in open wards are rarely, if ever, achieved. M. D. Mackenzie in a survey conducted for the League of Nations Health Committee in 1934 found that the standard for children in general hospitals was 7 ft. between bed centres; whereas Harries in his Milroy lectures gives 12 ft. as a minimum for the avoidance of bacterial droplet infection.

In Bristol, in 1930, 10 lives out of every 100 were saved from a fatal broncho-pneumonia in a measles epidemic through the use of small isolation wards.[1] Almost exactly the same saving of life from enteritis was effected by G. H. and G. F. Dick, at an infants' nursery, by the institution of cubicles and an aseptic technique carried out by a sufficient staff.[2] Yet in most English hospitals it is considered not a crime but a positive virtue for a nurse, doctor, or attendant to "carry on" with a cold, sore-throat, or influenza, contact with which, to an infant, old person, or any patient worn down by sickness, may quite well prove to be the beginning of a last illness. Only those in executive authority can break this bad tradition, and none seems to have the courage to do so. In one general hospital in England, containing upwards of 600 beds for acute cases, there is not a single isolation cubicle. In this hospital, in 1932, an outbreak of measles in a children's ward was attended by five deaths directly attributable to the infection.

[1] Among 167 children nursed in large wards of 26 beds the mortality was 14 per cent.; among 150 nursed in cubicles of 4 beds it was 4 per cent. (Annual Report of the Medical Officer of Health for Bristol, 1930.)

[2] Sauer, L. W., *Amer. J. Dis. Child.* 1935, **50**, 1159.

The old tradition that hospitals are institutions of charity dies hard. The patient is too often treated not as one asking for his due, or as a welcome customer, but as one demanding a not very convenient favour—especially if his complaint, however distressing to him, is regarded as of no special interest in the present state of medical knowledge and fashion.

Through sheer lack of sensitiveness on the part of the administration he is allowed to wait in uncouth and often cold surroundings for hours. And some are even brave enough to defend this state of things. The preposterous statement that working-class women "like waiting," that they use the hospital out-patient department as a club, &c., is still often to be heard. Would that the people who make it could be obliged to return home (on foot) with the victims, to scrub the floors, do the household washing, cook the family meals, and shop in the crowded cheap-jack market after the early shoppers have had the best bargains, in order to save halfpence. Insensitiveness to this chronic abuse is a matter of tradition and extends from governing committees and superintendents through medical officers, sisters, and senior nurses to probationers (who are at least powerless to prevent it). It has been proof against a good deal of public ventilation. The remedy is chiefly a matter of taking pains with the details of organisation, with the appointment of an extra clerk or two at £150 a year.

The waiting patient—often a child, particularly susceptible to infection, cold, and lack of food—seldom receives anything to eat during these hours except by the unofficial kindness of some nurse who "steals" from the hospital stores for the purpose. If admission is finally decided on, it may well be a further hour or more before his relatives or friends have complied with the formalities demanded, the actual execution of which should take five minutes. He and his friends, very possibly subsisting on the bare minimum provided by public assistance, have, unless the condition is critical and disabling, walked from their home, which may be several miles away, or paid their fares on the municipally owned tram or omnibus services, perhaps at the expense of next day's dinner.[3] His friends may continue to do so each day that they visit him. It may be that the ward which houses him subsequently develops some "officially" infectious disease and is quarantined; no notice is sent to his relatives, who waste their afternoon, their fares, and possibly sacrifice half a day's wages, to find a brief notice on the ward door announcing "closed to visitors."

In theory all desirable food is provided by the hospital: in practice many patients, whose relatives do not bring fresh eggs and fruit and the small luxuries sick people demand, will not receive them. Meals usually consist of a bread-and-butter breakfast, dinner, and a bread-and-butter tea. Having learnt to tolerate (in illness, when such demands on self-control are most difficult to support) the complete lack of privacy, the sights and smells of a ward in which death may be of almost daily occurrence, the unaccustomed hours, and nights disturbed by disquieting noises, the patient finds, often enough, that he is dependent for his personal comfort upon a grossly overworked staff, and stifles his dismay at

[3] A more serious blow, responsibility for which lies outside the public health service, as at present constituted, is the loss to the family of an unemployed man admitted to hospital of the benefit allowed in respect of his own person: this may amount to more than half of the total available income, yet rent and other fixed charges have still to be met. If his illness is of more than a few days' duration, his wife must apply for help to the relieving officer, but there will always have been some delay before her needs are met.

the cold or tepid washing water, the crudely served and often unappetising and monotonous food. Upon his bed chart, hung for all to see above his head, may be clearly written Tuberculosis, or some other equally terrifying diagnosis. He may learn, by pure chance talk, of some grave decision in his case. An impressionable child of six, he may be placed for weeks, or months, in a ward full of adults.

* * *

It is true that, to outward appearance at least, a majority of patients, not excepting the children, in the large wards of a general hospital, surmount all the difficulties, "do well," and seem none the worse for their experiences. Here and there a management committee has remedied many of the defects described; but all of them are to be found in a majority of hospitals, whether voluntary or municipal. A warm-hearted ward sister may succeed in keeping spirits high and may mitigate many of the minor discomforts. But would it satisfy our consciences in war-time to read that soldiers in waterlogged trenches showed a fine spirit of fellowship and endurance if one knew that careless organisation had allowed them to go short of food, clothing, dug-outs, field telephones, ammunition?

Underlying the sufficient exploitation of medical science in hospital must be not only the desire of each member of the staff and managing committee to give his best, regardless of self-interest, but the possibility for him to do so by close association with the difficulties of his colleagues and the knowledge that his best thought and efforts will meet sympathy and not indifference or obstruction. The professional ethic is not as yet general enough, and strong enough, among doctors and nurses, for them to desire, in their daily work, only the appreciation due to conscientious endeavour.

*** *This concludes the four articles by A Hospital Physician. Next month Vratch will be responsible for these columns.*—ED. L.

PANEL AND CONTRACT PRACTICE

Sickness Experience in 1937

THE secretary of one of the trade-union approved societies in his report for last year says that from the point of view of claims for benefit the most disastrous influenza epidemic in the history of the society occurred during the first few months of 1937, and claims have continued on a new higher level since. He adds that the Minister of Health has stated that one epidemic immunises the population for a year or so, but so far as the particular society is concerned influenza claims are always present. The society has a little over 56,000 members, in the proportion of four men to one woman, and the average number of days for which benefit has been paid is as follows:

	Sickness		Disablement	
	Males	Females	Males	Females
1919–23	3·86	4·50	1·64	1·74
1924–28	4·35	5·54	2·26	2·41
1929–33	4·37	5·34	2·42	2·33
1934	4·12	5·13	2·68	2·82
1935	4·20	5·40	2·60	2·74
1936	4·32	5·31	2·51	2·53
1937	4·65	5·50	2·36	2·35

In 1937 about one-third of the members claimed sickness or disablement benefit.

The Return of Records

It is a pity that some practitioners continue to be remiss in returning forms of medical record on request. If the patient is still an insured person he has transferred to another doctor who ought to have the advantage of seeing any clinical notes which have been made. Clerical work may be a weariness to the flesh, but it is part of the insurance practitioner's terms of service, and it is usually found that the real reason for failure to transmit the medical records is not so much lack of opportunity as lack of method. For good or ill the medical records are a part of the health insurance system and the keeping of them in the sense of entering them up properly and the transmission of them when necessary should be viewed as essential parts of the machinery for the administration of medical benefit.

Extensions of Practice

Last week's supplement to the *British Medical Journal* reports an address by Dr. H. Guy Dain at Wandsworth Town Hall on Feb. 1st to which all practitioners in the London area were invited. Dealing with the extent to which national health insurance has become more exacting in recent years, Dr. Dain said that the greater precision in diagnosis which was now possible had certainly eased the anxiety of practice which sprang largely from uncertainty. On the other hand, the doctor now had to take an increasing number of specimens for the laboratory, to write more letters, examine more reports, and be familiar with new techniques such as that of injections. Insured patients consulted their panel doctors for more trivial complaints than they did; but, though this might be irritating, the principle was a good one, and doctors must be prepared to practise more preventive medicine in the future. The difficulty was to convince the general public that increased remuneration should accompany increased service and responsibility.

Turning to the question of a general medical service, Dr. Dain said that at present some 19 million people were tied to insurance practice and, allowing for 2 million who would obtain their medical attendance privately in any event, extension of the national health scheme might bring in another 19 million. Some people supposed, quite wrongly, said Dr. Dain, that such an extension would mean the end of general practice; so far from meaning its end, it would mean its consolidation. It would certainly be the end virtually of fee-paying practice, but the essential thing in medical practice was not the manner in which the practitioner was paid: it was the relation between himself and his patient. If it was a relation of free choice the practitioner was employed by the patient and the patient's interest was his first concern. If, on the other hand, the practitioner was appointed by the State, allotted an area, and paid a salary, he had no longer an undivided loyalty to his patient, for his employer was the State. The national health insurance system did not interfere in any material way with the relation between doctor and patient. Personally Dr. Dain looked forward to an extension of the insurance medical service by bringing in dependants of insured persons and all of like economic status, and at the same time an extension of the range of dental, ophthalmic, and specialist benefits. This question of extension was a matter to which every

practitioner should give consideration, so that the representatives of the profession might reflect the opinion of their constituents and have a united body of support behind them.

B.P.A.

The British Provident Association continues to show a healthy growth, and in 1937 its income reached nearly £12,000. It is a coöperative organisation whose members pay an annual sum and can recover the cost of hospital, nursing-home, nurses' or doctors' fees if they or their dependants are ill. There is no income limit, though it is primarily intended for those of moderate means, and no deductions are made from the pooled subscriptions for commission or profit. Its schemes differ from insurance in that payments are adjusted to actual expenses, but its subscribers have the same undisputed right to financial assistance at times when misfortune might otherwise cripple them.

CORRESPONDENCE

M.O.H. AND PRACTITIONERS

To the Editor of THE LANCET

SIR,—The report by Mr. Harold Murphy on the outbreak of typhoid fever at Croydon will be closely studied by medical officers of health in order that they may find out if there are any ways in which their customary procedure in dealing with outbreaks of infectious disease may be varied or improved on, and it may be assumed that both the Society of Medical Officers of Health and the British Medical Association, between whom there exists the most cordial relations, will during the coming months give the matter their close consideration.

There is one important section of the report which unfortunately is not quite clear. I refer to the functions of the suggested committee of local practitioners to consult with the medical officer of health. It is true that Mr. Murphy does not actually suggest that "the more ready communication between the medical officer of health and the general body of practitioners" should take the form of a committee representative of local general practitioners, but it is evidently the view of Lord Dawson and other prominent medical men that it should take this form.

Now the universal practice of medical officers of health when confronted with a possible epidemic of a dangerous disease is to establish immediate contact, either by telephone or by letter, or by both, with *all* the local medical men practising in the area at risk, informing them of the danger, in order that they may get in touch with him at once if they have any patients with symptoms suspicious of the disease in question. It is also the universal practice for the local medical men to coöperate fully with the medical officer of health and refer to him without delay either definite or suspected cases of the disease. They expect and receive without question and without delay the fullest help which the public health department can offer them, usually in the form of *personal consultation with the medical officer of health at the bedside of the patient.* The medical officer of health can do no more; he dare do no less.

What then would be the function of the committee, which would necessarily consist only of a small proportion of the practitioners of the area? What information could be given to or by the committee which should not be given to *all* the practitioners in the area? The medical officer of health cannot delegate any part of his responsibility in dealing with an epidemic to any committee; he must personally be responsible for all information reaching *all* the practitioners direct. And when the practitioners have information of value to the medical officer of health, why should they not, in a situation where no time may safely be lost, transmit this information direct by 'phone to the medical officer as in the past?

In the face of recent legislation, especially the Local Government Act of 1929, which transferred all the old poor-law beds to the local authority, no one will question the advantage to both the medical officer of health and the local profession of a standing committee through which both sections may consult and coöperate; but in the presence of an actual epidemic of infectious disease it is not clear what useful purpose meetings of this committee would serve.

I am, Sir, yours faithfully,

HUGH PAUL,
Medical Officer of Health,
County Borough of Smethwick.

Feb. 16th.

VENOUS THROMBOSIS AS A SIGN OF VISCERAL CANCER

To the Editor of THE LANCET

SIR,—If Dr. A. P. Thomson's statement as given in your last week's annotation (on p. 448) is correct that this sign "has been wellnigh forgotten of recent years and is generally ignored in modern practice," it is more than probable that comparatively few are aware, in this country at least, that Trousseau who first described it in his clinical lectures on chronic ulcer of the stomach and phlegmasia alba dolens presented this sign himself at an early stage of his last illness, which he bore with an exemplary fortitude. The poignant story of this occurrence including the revelation of the sign to his beloved disciple Dieulafoy, who succeeded him as professor in the Paris faculty, and the aggravation of his suffering by financial worries, is told in the "Journal des Goncourt" (vol vi, p. 235), as I have recently shown in a survey of the life and work of this great clinician published in the organ of the Westminster Hospital medical school (*Broadway*, 1937, **7**, 2, 33).

I am, Sir, yours faithfully,

London, S.W., Feb. 20th. J. D. ROLLESTON.

STREPTOCOCCAL MENINGITIS

To the Editor of THE LANCET

SIR,—I cannot refrain from challenging one of Mr. Layton's statements in your issue of Feb. 12th concerning Mr. Cawthorne's paper on streptococcal meningitis. "Neck rigidity," said Mr. Layton, "in such cases is the first, and should be the only symptom."

I have studied my notes of cases of meningitis, 35 secondary to ear infection and 16 to nasal infection—51 cases in all. In 5 of the ear cases rigidity or stiffness of the neck was absent. In 12 of the nasal cases there was no rigidity. In the remainder the onset of rigidity varied from twelve hours to three days after the diagnosis had been made by the examination of the cerebro-spinal fluid, or after the onset of the severe headache and change of mentality. It is the change of mentality, headache, tenderness

over the occipito-atlantal ligament, and occasionally tenderness on pressure on the eyeballs which are the early symptoms.

The exact anatomical or physiological cause for the rigidity or stiffness of the neck muscles does not appear to be known. Some authors state that it is due to meningeal irritation. Dr. C. P. Symonds says that rigidity develops when the meninges of the dorsal aspect of the medulla are inflamed, and that meningitis does occur without rigidity being present. My own post-mortem records show that rigidity has always been noted when the meningitis is basal, and when the cisterna interpeduncularis is full of pus. It is sometimes absent in a cortical meningitis.

I am still pursuing the cause of rigidity in meningitis. The earliest possible diagnosis of meningitis is of the greatest importance if these cases are to be saved. I emphatically state that the diagnosis should be made before rigidity of the neck appears. An early and certain diagnosis can always be made by examination of the cerebro-spinal fluid. If the onset of meningitis is suspected or expected there should be no hesitation in performing a simple and harmless lumbar puncture. In my experience 98 per cent. of the cases with rigidity of the neck have died in spite of vigorous treatment, and valuable time has been lost by waiting for this sign.

I am, Sir, yours faithfully,

EDWARD D. D. DAVIS.

Charing Cross Hospital, W.C., Feb. 18th.

ARTERITIS OF THE TEMPORAL ARTERIES

To the Editor of THE LANCET

SIR,—Dr. Jennings in your last issue draws attention to arteritis of the temporal arteries, and it may be of interest to describe a case that differs from his mainly in the shorter duration of the illness.

Miss A, aged 71, was seen with Dr. A. L. Bastable on Dec. 16th, 1937. On Dec. 2nd she had complained of pain in the neck, and the temperature was found to be 102° F. On Dec. 4th she had pain in her face, and red tender nodules about the size of a threepenny piece were palpable along the course of each temporal artery. On Dec. 9th she had a sore-throat, and for this she was given Prontosil album 50 grains daily for four days, at the end of which time the symptoms had abated and the temperature was normal. On Dec. 16th she became disorientated, complained of pain in her chest, and said she could not move her arms to feed herself.

The pulse-rate was 110 and the blood pressure 136/80; temperature 100·4° F. The tongue was red, dry, and fissured. Some muco-pus was seen on the soft palate. Hard small nodules could be felt along the course of each temporal artery, but they were not red or tender. No pulsation could be made out in either artery. The confused state of the patient made examination difficult, but she appeared to be able to move her arms. Extrasystoles were present: otherwise heart and lungs were normal.

She was admitted to hospital, and in the ward had photophobia necessitating the use of an eye-shade. Dr. James Fison reported some peripapillary atrophy in each eye. The hæmoglobin was 74 per cent.; red cells numbered 4·6 million and leucocytes 12,500 (82 per cent. polymorphs, 17 per cent. lymphocytes). The blood-urea was 36 mg. per 100 c.cm. and the Wassermann reaction negative. Mr. A. B. Pavey-Smith reported nothing abnormal in throat, nose, or sinuses.

The nodules became smaller, and by Dec. 30th, when the question of removing one for examination was discussed, could no longer be palpated with certainty. The temperature was normal on Jan. 3rd. At this time the leucocytes were 7600, and the blood-urea 20 mg. The pulse-rate still remained about 100 when she was discharged on Jan. 14th.

Dr. Bastable tells me that subsequently the patient suffered from muscular rheumatism. Then a rapid improvement set in with a return of her appetite. She is now in her usual health.

I am, Sir, yours faithfully,

Harrogate, Feb. 20th. C. W. C. BAIN.

CONTRACEPTION AND FERTILITY

To the Editor of THE LANCET

SIR,—Mr. Alabaster has taken exception to the National Birth Control Association for challenging the statement of an eminent gynæcologist. Mr. Green-Armytage has contended that the use of contraceptives early in marriage is inimical to pregnancy. This is a charge of the utmost gravity, which, if it were true of the contraceptive technique advocated by the National Birth Control Association, would entail a modification of its policy and work.

The N.B.C.A. recommends the teaching, where necessary and suitable, of the use of a rubber occlusive cap, combined with an application of a suitable spermicide. The alternative method advocated—the use of a sheath or condom—is limited in its application because certain men are quite unable to tolerate it.

For many newly married women it is imperative that pregnancy should be postponed, as for instance when the woman is working and her husband unemployed. The above measures are considered to be essentially prophylactic, both for avoiding "anxiety states," and, of utmost importance, for combating the high incidence of criminal abortion with its subsequent morbidity and sterility.

Mr. Green-Armytage has replied to our remonstrance, that "statistics can be made to prove anything . . . and they naturally are biased." But is it not scientific custom to consult statistics and records in the expectation of finding at least as high a degree of dependability as that gained by the personal impression of an observer? Particularly must this be so when the subject is one such as this, which invites prejudices of a social or ethical nature.

The quotations offered by Mr. Alabaster concerning the relationship between endocervicitis, erosion, and sterility seem to add confusion to the original issue. If there were any evidence that the above technique did, in fact, induce these conditions (or influence fertility in any other way), these suggestions would become a matter of gravest concern. As this has not been evident among large numbers of control cases, the contention does not appear to be relevant. Some of the clinics have maintained records of the "condition of cervix" over a period of many years. Nulliparous and multiparous patients return at six-monthly intervals for supervision, and for general advice upon spacing their pregnancies. The clinics are heavily attended, and are regularly giving instruction in this important subject to post-graduate practitioners.

Mr. Alabaster questions the competence of the N.B.C.A. to express opinion. The association is fortunate in counting among its officers and active committee members Lord Horder as president, Sir Walter Langdon-Brown as vice-president, Prof. F. J. Browne, Mr. Aleck Bourne, Mr. Harold Chapple, Mr. A. C. Palmer, Mr. L. C. Rivett, and Mr. Cedric Lane-Roberts.

I am, Sir, yours faithfully,

London, N.W., Feb. 21st. JOAN MALLESON.

THE NEXT INFLUENZA PREVALENCE IN LONDON

To the Editor of THE LANCET

SIR,—In your issue of Dec. 15th, 1934, I analysed the influenza epidemics in London since 1889, and showed that after an epidemic which had reached a maximum before the ninth week of the year, more than a year of freedom from prevalence followed.

It will be remembered that the last epidemic reached its peak in the second week of last year (344 deaths). Since then there has been no epidemic prevalence; but if history repeats itself a prevalence may be expected which will reach a maximum after the ninth week of this year. The last occasion prior to 1937 in which an epidemic reached a maximum in the second week of the year was in 1922. The relation of this epidemic to the next following prevalence is shown in the following figures, the corresponding deaths up to Feb. 12th of this year being added for comparison:—

NUMBER OF WEEK IN YEAR AND DEATHS THEREIN (LONDON)

Year.	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1922	354	551*	443	320	191	109	92	77	49	30	21	17	21	20
1923	9	13	13	14	15	9	14	15	18	17	21	39	34	56*
1937	311	344*	273	154	101	50	33	23	16	12	21	17	17	19
1938	7	15	12	9	8	3	..	..	..	..	..	..	..	..

* Week of maximum deaths during prevalence.

I am, Sir, yours faithfully,

Kensington, W., Feb. 19th. B. E. SPEAR.

PSYCHONEUROSIS IN HOSPITAL PRACTICE

To the Editor of THE LANCET

SIR,—Dr. Bruce Pearson is to be congratulated on his article of Feb. 19th describing his painstaking analysis of 1297 first attendances at the general medical out-patients' department of Guy's Hospital. His object was to ascertain the proportion whose symptoms were of psychoneurotic origin, and his results are in some directions surprising.

1. The diagnosis of psychoneurotic illness was made in only 16 per cent., though he states that this may be regarded as a minimum figure. My own experience leads me to assess the proportion at nearer 50 per cent. in general medical out-patient departments; and, of course, at a much higher figure in neurological clinics. I only regret not having compiled statistics with which to check my impression. The reason for this high proportion at hospitals is, no doubt, the difficulty that these cases give the general practitioner from the point of view of both diagnosis and treatment, the real proportion of psychoneurosis to all cases of illness being much less.

2. The diagnosis of psychoneurotic illness was made twice as often in women as in men. Again my own experience, unbacked by figures, has not impressed me that males are less prone to this type of illness than are females. It would be difficult to understand why they should be, seeing that they are, if anything, more exposed to anxieties of an economic nature than are women, and cannot be regarded on an average as being composed of superior material.

3. The highest incidence of psychoneurotic illness in both sexes was in the age-group 20–30, whereas it was negligible after the age of 50, and there was no menopausal increase. No doubt the over-thirties have become better adjusted to life; but it is a matter of experience that "nerve," willingness to take a chance, and recoverability from illness, disaster, and mental and physical strain are greater while the impetuosity and resiliency of youth still remain than in middle age with its greater circumspection, greater responsibilities, and reduced opportunity of making a fresh start. In the case of industrial workers, financial security becomes progressively less after forty, when it becomes increasingly difficult to obtain employment in the labour market. In practice menopausal symptoms are common, and after this age failure of adjustment to growing old is frequently met with.

No doubt sampling accounts for the differences in different districts; and menopausal disorders could be classified equally well as endocrine disturbances, thus escaping inclusion among the psychoneuroses in the analysis.

Dr. Bruce Pearson alludes to the fact that in those whose symptoms are dated from physical or psychic trauma it is probable that the cause to which the symptoms are attributed is not the real one. This point should be stressed in the hope of getting rid eventually of the misleading label "traumatic neurasthenia" so often applied to psychoneurotic illness supervening in those who have sustained a physical injury or an emotional disturbance. A continuing illness can only be maintained by a continuing cause and not by a past event.

I am, Sir, yours faithfully,

Harley-street, W., Feb. 21st. B. BUCKLEY SHARP.

JOINT TUBERCULOSIS COUNCIL

AT the conclusion of a busy morning session last Saturday the president of the Joint Tuberculosis Council, Dr. S. Vere Pearson, entertained the Council and some guests to luncheon at the Hotel Russell. In proposing The Guests, Dr. Pearson remarked that the tuberculosis world acts mostly through its officers and their personal relations with the practitioner. He thought this was not a bad system. Where the Council came in was simply through a number of voluntary consultative committees, the drawback being that they had no funds available. Dr. Pearson regretted the retirement of their secretary, Dr. Ernest Ward, who had inspired the Council during its fourteen years of existence by his initiative, devotion, skill, and good temper.—Sir Henry Brackenbury, who responded, while agreeing that the economic encroachment by the tuberculosis service on the practitioners' domain had passed, said there was still a feeling that by undue intrusion into the practitioners' capacity, by deprival of experience which he valued, and by relieving him of responsibility which he ought to have, the practitioner was in so far becoming a less competent servant of the public. Was this, he asked, inevitable?—Dr. L. Haden Guest, M.P., proposing The Council, suggested that to its administrative and scientific functions it should add yet another—namely, to bring forward knowledge in such a form as to influence public opinion. There were, he said, now only four active medical persons in the House of Commons, where it was most desirable to have properly set out the right views on the causes of tuberculosis.—Dr. Ward, responding, said he gave up office with thankfulness tinged with regret, his task being incomplete. He still wanted to ascertain why tuberculosis was more rife in some places than others; he thought that epidemiological information might be organised in the same way as meteorological; and he still felt not enough was being done in the therapy of tuberculosis.—Dr. Stella Churchill proposed The Chairman in a few happy phrases, and Dr. Pearson replied with a word of thanks.

IRELAND

(FROM OUR OWN CORRESPONDENT)

THE DUBLIN HOSPITAL PROBLEM

A STATEMENT appeared in the *Irish Times* of Feb. 19th to the effect that the Minister for Local Government and Public Health had decided to accept the recommendation of the Hospitals Commission for the establishment of four large voluntary hospitals in Dublin. If the information is accurate the main policy for which those interested in the voluntary principle have been contending will have been accepted. The recommendation of the Commission had been made some two and a half years ago and had been received with almost universal approval by the medical profession. Urgent demands were made, however, from other quarters for the establishment of a municipal or rate-supported hospital, and the long period taken by the Minister before coming to his decision had given rise to fears that the plan of the Hospitals Commission might be rejected in favour of the other project. It was unfortunate that the two schemes were put in competition with each other, for instead of being rivals they might well be complementary. There is room, and probably need, for development both of the voluntary hospitals and of the public (rate-maintained) hospitals. The scheme now believed to be accepted is for six of the present voluntary hospitals, which range in accommodation from 110 to 350 beds, to be reorganised as four larger hospitals with an accommodation in each of 500–600 beds. This reorganisation is to be attained by the individual development of each of the three larger hospitals—the Richmond Hospital, St. Vincent's Hospital, and the Mater Misericordiæ Hospital—and the amalgamation into one of the three smaller—Mercer's Hospital, Sir Patrick Dun's Hospital, and the Royal City of Dublin Hospital. If some such scheme had not been adopted grave fears were felt that clinical teaching might be endangered and the status of the Dublin school of medicine damaged.

THE IRISH MEDICAL PROFESSION AND THE SENATE

The new Senate, the second house in the Irish legislature, is to be based mainly on the vocational principle. The right of nomination of candidates for election by an electoral college consisting of the members of the Dáil and a number of representatives of the local authorities rests with a number of vocational bodies, and the register of such vocational bodies has been completed and published. These bodies were grouped into certain panels defined in the Act, and the decision as to the suitability of the several bodies for admission to a panel was committed to the Senate returning officer, a distinguished officer of the civil service, subject to appeal to a special appeal committee consisting of members of the Dáil. The register is now complete, the original list drawn up by the returning officer having been upheld by the appeal committee in the few instances in which appeals were lodged. Several medical bodies had applied for registration—the Irish Free State Medical Union, the Royal College of Physicians, the Royal College of Surgeons, the Royal Academy of Medicine. The universities did not apply, having direct representation in the Senate. Of the medical bodies which applied the only one the application of which was granted was the Royal College of Surgeons. The only one of those rejected which lodged an appeal was the Medical Union. It is of some interest that while the returning officer refused the application on one ground the appeal committee is understood to have rejected it on a different ground. The committee based its decision, it is understood, on its interpretation of the following clause in the Seanad Electoral (Panel Members) Act, 1937 :—

"No body which is composed wholly or mainly of persons who are in the employment of the State or of persons who are in the employment of local authorities and the objects of which include the advancement or protection of the interests of such persons in relation to their said employment shall be eligible for registration in the said register."

It is true that the Medical Union contains a certain number of persons in the employment of the State and a large number in the employment of local authorities, and that its objects include the advancement and protection of their interests in such employment, but it does not seem to be established that the Union consists "wholly or mainly" of such persons. From the list of members of the Union it would appear that less than half its members are in either class of public employment, and it is hard to see how the committee arrived at its interpretation. The register as completed has given rise to very widespread criticism and it is impossible to discover on what general principle or principles the returning officer or the committee acted.

UNITED STATES OF AMERICA

(FROM OUR OWN CORRESPONDENTS)

BETTER CARE FOR MOTHERS AND BABIES

ON Jan. 17th and 18th there was held in Washington, D.C., a conference called by Katherine F. Lenroot, chief of the Children's Bureau, to consider the existing resources for the care of mothers and new-born infants in this country, measures which have been successful locally in reducing maternal and infant mortality and the ways by which such services may be made everywhere available. There were 481 registered delegates at the conference, and they included representatives from 86 national organisations. The conference was addressed, among others, by Dr. Thomas Parran, surgeon-general of the public health service, who reminded it that all health problems are family problems and that family health is one phase of family security. He referred to the findings of the recent nation-wide survey of sickness as further evidence of the close relationship between poverty and disease. The Social Security Act which came into effect two years ago was a first effort to break the vicious circle of poverty, ignorance, and disease. On this existing structure he would add a nation-wide programme which would provide :

"(1) For all citizens those community measures of sanitation and disease prevention which are necessary if any of us are to be safe.

"(2) For the underprivileged third of our population, such specific measures of prevention and treatment as good maternity care, child health protection, the control of tuberculosis, syphilis, pneumonia, cancer—conditions which are too important to the nation as a whole for us to permit continued neglect.

"(3) For areas without them, the physical facilities for good health, such as hospitals, sanatoria and health centers, without which no national health programme can operate effectively.

"(4) For those on relief and dependent upon public funds for the other necessities of life, a minimum standard of general medical, dental, nursing and hospital care."

He would put this programme under local operation "with State supervision and Federal guidance," the cost to be borne by local and State funds with Federal assistance.

A committee on professional resources recommended the need for providing services of qualified medical men to all; for training "obstetric nurses" for areas in which medical care is not available; for consultant physicians; for improved educational facilities for hospital care "when indicated"; and the provision of equipment and trained personnel to care for premature infants.

The committee on community resources recommended appropriations for (1) training public health personnel, (2) payment of qualified local physicians and specialists, (3) more hospital beds.

PROPOSED APPROPRIATION FOR SYPHILIS CONTROL

The great popular interest in the campaign against syphilis has resulted in the introduction into the House of Representatives by Mr. Bulwinkle and into the Senate by Mr. Lafollette "to impose additional duties upon the United States Public Health Service in connection with the investigation and control of the venereal diseases." The Bill authorises the appropriation of three million dollars for the next fiscal year, doubles that for the next year, doubles it again for the succeeding years, and calls for 25 million dollars for each of the following ten years. The subsidy is to be distributed among the several States upon the basis of (1) population, (2) the extent of the venereal disease problem, and (3) the financial needs of the respective States. Rules and regulations for carrying out the purposes of the Act will be prescribed by the surgeon-general with the approval of the Secretary of the Treasury and after consultation with the State and Territorial health officers.

ANTIPNEUMOCOCCUS SERA

New York State has been supplied by the division of laboratories-research of the State health department with antipneumococcus sera of types V, VII, and VIII during the last three months. Approximately 2400 packages have been distributed between Nov. 1st and Jan. 31st. Since strict precautions are taken against wastage of this expensive material we must conclude both that the incidence of pneumonia of these types is commoner than we had supposed and also that the physicians of the State are quick to take advantage of the new specific sera. The 200 reports received to date on the use of the new sera have in general been highly favourable.

PUBLIC HEALTH

Payment for Maternity Services

THE Central Bureau of Hospital Information has recently inquired into the payments made by local authorities to voluntary hospitals for maternity services.[1] Of the 94 hospitals to which their questionnaire was sent 86 replied, comprising 19 maternity and 67 general hospitals. In 43 of these there are no arrangements with local authorities for antenatal work, and in 4 of the general hospitals work is undertaken on their behalf without payment. In the remainder payments are made in various ways. In some cases there is an annual grant, varying from £5 in a small provincial hospital to £5000 in a large hospital with 50 maternity beds reserved for the local authority. In two London general hospitals an inclusive fee of from ten shillings to two guineas is paid per case to cover in-patient and out-patient treatment, and in a number of others the fees for in-patients include antenatal attendances. In a few clinics a fee of from 1*s.* 6*d.* to 2*s.* is paid per attendance, in two the authority pays the actual cost, and in two others it pays a fee of from one to two guineas per session. The payments for in-patients not covered by an inclusive fee are made on either a per-week or an actual-cost basis, the maximum weekly fee being £5 5*s.* and the minimum 25*s.*, the former including antenatal care. Finally some local authorities limit their contributions to a grant towards the upkeep or more usually the rent of the premises.

"Certified Because of Old Age"

In West Wales (Carmarthen, Cardigan, and Pembroke) it is being said that the older residents at the public assistance hospitals are transferred too readily to the mental hospital that serves the three counties. The aged have only to give a little trouble (so runs the allegation) and the medical officers at the institutions will promptly arrange for their transfer under certificate.

[1] Memo. No. 114. From the Bureau at 12, Grosvenor-crescent, London, S.W.1. 2½*d.* post free.

There are doubtless difficulties on both sides. It is far easier to care for the fractious and senile where there are enough nurses than where there are not. Justices are still to be found suspicious that medical suggestions for custodial care are made too easily, and such vigilance may outrun wisdom. Nevertheless, the present criticisms may be the start of more understanding between the public assistance hospital, the mental hospital, and the magistrate. Some of the current difficulties may have arisen from imperfect appreciation or use of the opportunities for admitting senile patients into mental hospitals as temporary and not as certified patients. A survey in selected areas of the mild mental cases in the infirmaries and of the harmless cases in the mental hospitals might produce interesting if not significant figures.

Typhoid in Somerset

The outbreak of typhoid fever so far confined to certain districts of Somerset near Bridgwater seems to have spent itself. The fortieth case, said to be due to secondary infection, was notified on Monday last. There have been 6 deaths, all at West Huntspill, where two-thirds of the patients lived, the remainder coming from Highbridge. Inquiries into the dietary of the affected families incriminate food eaten at Christmas, but this source is no longer active. Milk and water are still being boiled, though there is no sign that they are spreading infection, and the eating of ducks' eggs is forbidden because the birds frequent the reens draining the sewage from the neighbourhood.

INFECTIOUS DISEASE

IN ENGLAND AND WALES DURING THE WEEK ENDED FEB. 12TH

Notifications.—The following cases of infectious disease were notified during the week: Small-pox, 0; scarlet fever, 2326; diphtheria, 1738; enteric fever, 21 (24 "expected"); pneumonia (primary or influenzal), 1155; puerperal pyrexia, 184; cerebro-spinal fever, 35; acute poliomyelitis, 9; acute polio-encephalitis, 1; encephalitis lethargica, 2; dysentery, 242; ophthalmia neonatorum, 108; No

(*Continued at foot of opposite page*)

OBITUARY

RICHARD HUXLEY FISH, M.D. Camb., M.R.C.P. Lond.

ON Feb. 15th Dr. Richard Fish died suddenly in the Central Middlesex Hospital of subarachnoid hæmorrhage at the age of 32. He was the only child of Dr. Cecil Fish who died when he was a boy, and was a scholar of Clare College, Cambridge, where he took first-class honours in the natural sciences tripos in 1927. He then went to St. Thomas's where he qualified in 1930, getting his Cambridge M.B. in 1934 and his M.D. and a diploma in child health in 1936. His main interest was with children, and he was house physician in that department at St. Thomas's and medical officer at the High Wood Children's Hospital. Children instinctively trusted him and he had a modest charm and an enthusiastic joy in his work which gave his patients confidence. His view of life was cheerful, and he had that guileless spirit which believes the best of everyone. He made many friends. At High Wood he studied miliary tuberculosis and published his views in a monograph in the earnest and careful style which characterised all his work. Later he was medical officer at Colindale Hospital, and he was beginning to be recognised as an authority on phthisis. He leaves a widow and three sons.

Dr. SARA ELIZABETH WHITE, who died at Manor Park, Essex, on Feb. 10th in her eighty-third year, was a lifelong champion of the mentally afflicted. She held the view that it was both unnatural and unscientific to regard mental treatment as a specialty, and that the dread of the prison bars of detention had stood in the way of every early effort at success. We want places, she used to say, where early cases will not be afraid to come of their own accord for treatment, hospitals where prevention and common sense will come into action much earlier. We want, in fact, not more detention but far less. It was this conviction that led her to follow in the galleries of the House of Commons every stage of the Mental Treatment Bill of 1915, and after it was passed to do her utmost to ensure its widest possible application. Dr. White was born at Orange Hill, Tandragee, co. Armagh, and was educated at University College, London, and Westfield College, taking her B.Sc. Lond. in 1891 with honours in physiology, and qualifying in medicine in 1896 when she was in her forty-second year.

Mr. HARTLAND S. WRIGHT, who died on Feb. 16th in his ninetieth year, had been chairman of the Bristol publishing house of Messrs. John Wright and Sons, Ltd., since the incorporation of the company seventy years ago. It was he who saw the possibilities of the *Medical Annual*. Starting in 1883 with a modest volume of some 300 pages printed in Bristol by the present proprietors for a London publisher, he secured the coöperation of the late Dr. Percy Wilde and built up a year book which came to have a world-wide circulation. A portrait of Mr. Hartland Wright very properly appeared in the jubilee issue of the *Medical Annual* in 1932 at the end of the gallery of past and present contributors.

(*Continued from previous page*)

case of cholera, plague, or typhus fever was notified during the week.

The number of cases in the Infectious Hospitals of the London County Council on Feb. 18th was 4676, which included: Scarlet fever, 817; diphtheria, 1349 (carriers 46); measles, 1168; whooping-cough, 276; puerperal fever, 16 mothers (plus 6 babies); encephalitis lethargica, 282; poliomyelitis, 1. At St. Margaret's Hospital there were 28 babies (plus 14 mothers) with ophthalmia neonatorum.

Deaths.—In 125 great towns, including London, there was no death from enteric fever, 40 (6) from measles, 6 (0) from scarlet fever, 24 (4) from whooping-cough, 29 (3) from diphtheria, 65 (20) from diarrhœa and enteritis under two years, and 40 (3) from influenza. The figures in parentheses are those for London itself.

Croydon reported the only death from typhoid. Liverpool had 15 deaths from measles, Manchester 6. Liverpool also reported 5 fatal cases of whooping-cough, Birmingham 3. Diphtheria was fatal in 18 great towns, Liverpool reporting 8 deaths, no other great town more than 2.

The number of stillbirths notified during the week was 301 (corresponding to a rate of 43 per 1000 total births), including 49 in London.

THE LANCET 100 YEARS AGO

February 24th, 1838, *p.* 779.

From a leading article on the poor law, then being inquired into by a parliamentary committee.

THE EFFECT OF LOW DIETARIES, AND CONFINEMENT IN WORKHOUSES, ON HEALTH

When the introduction of the Poor-Law Amendment Act was agitated, the question of dietaries assumed considerable interest. The dietaries were to be reduced; and it became a desideratum to prove that spare diet would not be prejudicial to the frame. Mr. CHADWICK undertook the task, and, with a degree of ingenuity for which he has obtained some credit, set the question then at rest to his employers' satisfaction. The dietaries varied considerably in different gaols. Mr. CHADWICK divided sixty gaols into three classes of twenty each; one of "Lowest Dietaries," one of "Full Dietaries," and a third where the dietaries were "Intermediate." From a comparison of the number of persons committed, the number sick, and the number of deaths, he deduced, as a result, that the lowest dietaries were healthful, and that the full dietaries of prisons were the sources of sickness and death to considerable numbers. No one had ever suspected this, or had conjectured that a daily average of 2¼ lb. of bread, vegetables, and meat (half an ounce of the latter), with a little gruel, and water at discretion, costing 4*d.*, would produce the fatal consequences of plethora. Such, however, was the alleged fact, demonstrated in figures, with mathematical precision:—

	Daily cost.	Sick per ct.	Deaths.
20 Lowest dietaries ..	3¼*d.* ..	3⅞ ..	1 in 622
20 Full dietaries ..	5½*d.* ..	23½ ..	1 in 266

. . . A nearer examination of the facts shows that the above results are erroneous, the data having been ingeniously collected, but inaccurately interpreted. . . . Mr. CHADWICK fell into error by not adverting to the fact, that prisoners on the lowest dietaries, . . . were detained only thirty-four days; while in the gaols with what he has called "full dietaries," they remain eighty-two days on an average. It would have been strange if the deaths in thirty-four days had equalled the deaths in eighty-two days. . . . The proper quantity of food for masses of men or animals is the average quantity that they eat where the supply is regular and unlimited. When subsistence is stopped, or reduced much below this standard, the well-known consequences of famine ensue; and every degree below the standard has a corresponding death. Such is the result of all the statistical facts that we have seen—contrary to Mr. CHADWICK's deductions, but conformable enough with the experience and conduct of mankind—who only lived on the "wholesome roots of the earth," and "the crystal stream," when they had no alternative; and never sighed for the age of acorn-eaters, but over tables spread with Roman luxuries, or eulogised watergruel on less than 1000*l.* per annum.

EPIDEMIC POLIOMYELITIS AND ENCEPHALITIS

PROF. FLEXNER'S REVIEW

RECENT developments in the study and prevention of poliomyelitis and epidemic encephalitis were described by Prof. Simon Flexner, formerly director of the Rockefeller Institute for Medical Research, New York, in a lecture at the University of Cambridge medical school on Monday last.

After a historical introduction he gave an account of the methods of ingress and egress of the virus of poliomyelitis in the human body, and then turned to the subject of active immunisation. Monkeys, he said, can be quite readily immunised by increasing doses of the virus, but owing to differences in sensitivity some of them always develop the disease during the process. In man two chief forms of vaccine had been used for active immunisation—namely, formolised vaccine and vaccine treated with sodium ricinolate. Both had now been abandoned. The first method gave almost no antibody production, presumably because the virus was dead. The second produced antibodies, but gave rise to active disease in some of the patients. Immunisation had also been attempted with mixtures of virus and immune bodies. This method was quite safe, but produced only a very low degree of immunity.

Failure of these methods led to attempts to block the route of ingress of the virus. It was found in guinea-pigs that tannic acid instilled into the nasal cavity coagulated albumin over the olfactory organs and gave protection from instillation of the virus. A similar treatment with 1 per cent. zinc sulphate was extraordinarily effective in protecting monkeys. Protection might last as long as three months with a single treatment. In the human patient treatment of the nose with zinc sulphate was more difficult because instillation is obstructed by the middle turbinate. Treatment had therefore to be carried out by ear, nose, and throat surgeons under direct vision, and was expensive. In a recent Toronto epidemic 5000 cases were treated and compared with 5000 controls. The incidence in the respective groups was 2·1 per cent. and 2·9 per cent., a difference that is not significant.

In dealing with the question of second attacks, Dr. Flexner said that there was no bacterial or virus disease in which second attacks have not been described. In monkeys it was relatively easy to produce second attacks in animals which had previously been paralysed. In man there were at least a dozen or twenty cases on record of second attacks. The highly characteristic rise in cell count in the cerebro-spinal fluid which occurred in monkeys although the virus did not reach the cerebro-spinal fluid suggested a method of determining whether in epidemics mild or abortive cases had really been cases of poliomyelitis.

In epidemic encephalitis a great advance had been the successful transmission to monkeys and mice of the virus recovered during the epidemic in 1933 in St. Louis, Missouri. This development had made it possible to say definitely that the St. Louis epidemic was immunologically different from encephalitis lethargica, and also from the Japanese epidemic of 1924. This, however, did not mean that these various epidemics were necessarily different diseases; for poliomyelitis, which was undoubtedly a single disease, was known to be caused by different strains of virus which were immunologically distinguishable.

THE SERVICES

Army Medical Services

THE War Office announces the following appointments :—

Colonel F. CASEMENT, D.S.O., M.B., deputy director-general, Army Medical Services, at the War Office, will be promoted to the rank of major-general and to be deputy director-general of medical services, Southern Command, from April 15th, 1938, in succession to Major-General O. Ievers, C.B., D.S.O., M.B., K.H.S., who will vacate the appointment on completion of four years' service as a major-general.

Colonel O. W. MCSHEEHY, D.S.O., O.B.E., M.B., at present assistant director of medical services, Home Counties Area (West) at Woolwich, to be deputy director-general, Army Medical Services, in succession to Colonel Casement.

Presentation of a Banner to the R.A.M. College

On Feb. 18th, in the library of the Royal Army Military College at Millbank, Sir James Hartigan, director-general of the Army Medical Services, presided over a distinguished company when Lady Keogh presented the banner of a knight grand cross of the Order of the Bath, bequeathed to the College by the late Lieut.-General Sir Alfred Keogh. In presenting the banner Lady Keogh said :

"Just before my husband died he told me that he wished his banner to go to this mess. I hope that it will remind you and future generations of all he did for his corps. From the time he was made a member of the reorganisation committee in 1901 he never ceased to use all his energy and the whole force of his character to helping to make the Army Medical Corps into a thoroughly scientific and efficient branch of the Army and it is only recently since I have been going through old letters and papers that I realise what an uphill and arduous task he had—at any rate during his first years at the War Office. He never spoke of his work at home. He never spared himself and he was completely without personal ambition; but he thought no honour too great for the corps of which he was proud and in which he had great faith. Just before he died he said, 'I loved the soldier—he is the best fellow in the world, and I have done my best for him.' He said what had been the leading principle of his life."

In accepting the banner and crest on behalf of the College, Major-General W. P. MacArthur said :

"It has been a disappointment to us that the banner could not be displayed in association with Sir Alfred Keogh's portrait, but the banner by reason of its size, and the colours of its heraldic emblazonment, would render any picture in its neighbourhood ineffective. Nor would it be satisfactory to hang the banner from its staff unprotected, for the corrupting influences of moth and rust and London fog would slowly bring about its disintegration. And so, acting on professional advice, the banner has been placed in its present case where it will remain preserved indefinitely as a memorial and an inspiration—not that we in the College need any such memorial, for Sir Alfred Keogh's noblest monument, in the form of the College itself, stands around us."

Waziristan Operations

The following are among those brought to notice by the Commander-in-Chief in India for distinguished services during the operations in Waziristan from Jan. 17th to Sept. 15th, 1937 :—

Major-General W. H. Hamilton, Lieut.-Colonel R. K. Mallam, Colonel R. E. U. Newman, Colonel

(*Continued at foot of opposite page*)

PARLIAMENTARY INTELLIGENCE

ABOLITION OF NIGHT BAKING

On Feb. 18th Dr. Haden Guest moved the second reading of the Bakehouses Bill to prohibit night work in bakehouses. He said that a third of the 190,000 bakers worked at night. He had started with the idea that there was no evidence of serious deterioration among bakers, but had found that this was not so, and he believed that there had been no medical men on either of the committees which examined this question. The men had to work in a dusty atmosphere at a temperature of 70° to 80° F., reaching 100° F. in summer, and in a glare of light which affected their eyesight. They had inadequate time for meals and their sleep in the daytime was likely to be disturbed. The registrar-general reported that they had a high death-rate from phthisis, alcoholism and bronchitis and that hernia in them was excessively fatal. Opposition to reform came from the large factory bakers, some of whom, in Dr. Guest's opinion, produced bread of poor quality. Night bakers were cut off from the social life of their fellows and families, and could take no part in the Government's fitness campaign. Their work might almost be called slavery. Mr. Marshall seconded the motion, and Sir A. Pownall then moved an amendment that in view of the findings of the recent departmental committee that legislation would fall far short of removing the disadvantages of night baking and would cause hardship in many cases, a more effective amelioration of conditions might be secured through improved organisation of the industry and applying the Trade Boards Act to it. Mr. Fleming seconded the amendment. Dr. Salter, in supporting the Bill, said that no trade board would have any power whatever to abolish or reduce night baking, but the Labour Party wanted a trade board to regulate hours and wages. The night baker could be recognised by the extraordinary pallor of his countenance and of his mucous membranes. Anæmia was the explanation of the remarkable listlessness displayed by these men. It was recognised by physiologists that the vitality of the average human being was at its lowest in the small hours of the morning; the rapidity of nervous reaction was also reduced, which meant greater proneness to accident. Mr. Geoffrey Lloyd, Under-Secretary to the Home Office, said that many misguided people liked their bread fresh, though he understood that medical opinion was against it. The organisation of the baking trade was unsatisfactory. One of the worst problems was that of the underground bakehouse, but higher standards would be enforced under the new Factories Act. The questions of bad conditions, long hours, and unduly low wages were even more important to the ordinary working baker than night bakery. The Government thought a new approach to these problems would emerge from their policy of a trade board and they expected good results from it.

The amendment was negatived by 147 votes to 126 and the Bill was read a second time.

NOTES ON CURRENT TOPICS

Lunacy and Mental Deficiency in Scotland

In reply to a question by Miss Horsbrugh about the unsatisfactory condition of the present statutory law relating to lunacy and mental deficiency in Scotland, Mr. Elliot said he had appointed a committee to review the law, of which the members were: the Hon. Lord Russell (chairman), the Hon. Mrs. J. E. Hamilton, Prof. David Kennedy Henderson, M.D., Sir James Colquhoun Irvine, F.R.S., Mr. William Leonard, M.P., Major Basil Hamilton Hebden Neven-Spence, M.P., Mr. William Donald Patrick, K.C., Lord Provost John Phin, Miss Bailie Violet Roberton, Prof. Thomas Murray Taylor, LL.B., and Mr. Aidan Gordon Wemyss Thomson. The terms of reference were: To inquire into the existing law of Scotland relating to:—

(a) The certification, detention, and supervision of persons who are, or are alleged to be, of unsound mind.

(b) The temporary or permanent release of such persons.

(c) The arrangements made for persons who have not been certified but who are suffering from mental illness, including the powers and duties of local authorities with respect thereto.

(d) The procedure followed in the case of lunatics who are dangerous or are alleged to be dangerous.

(e) The procedure followed in the case of mental defectives accused of criminal offences.

(f) The definition of mental deficiency.

(g) The arrangements for dealing with mental defectives up to the age of sixteen who are not in attendance at school, and for dealing with mental defectives on attaining the age of sixteen.

(h) The procedure followed in the case of mental defectives becoming temporarily insane; and to report what amendments, if any, are desirable as a preliminary step to the consolidation of the law of Scotland relating to lunacy and mental deficiency.

Parliamentary Group of the Empire Rheumatism Council

On Feb. 17th Sir Francis Fremantle, Dr. Salter, and Dr. Howitt, members of the Parliamentary Medical Committee, invited members of both houses to hear Lord Horder and Sir Frank Fox explain the work of the Empire Rheumatism Council. Lord Horder claimed that rheumatic disease to-day was a scourge possessing both national and imperial importance. It was an economic and a sociological as well as a medical problem. Rheumatism cost the nation several million days of incapacity from occupation on the part of the workers and some £17,000,000 per annum in sick pay and wages; all this apart from the demoralising effect of pain and suffering. He had to confess that medicine was greatly in arrears in surveying the field and still more in assaying causative factors and determining the indications for treatment. It was a serious gap in our national health defence which the Empire Rheumatism Council was now trying to fill. Fourteen years ago the Ministry of Health showed that rheumatism accounted for one-sixth of the total illness of the community; there was no reason to believe that this figure had been reduced. The Council proposed to survey the position not only in this country but in the Dominions, from which help was already coming in. Some old fallacies were being exposed; in Australia, for example, despite its sunny and dry climate, there appeared to be as much rheumatism as in this generally despised climate of ours. The climatic factor in causation had probably been over-estimated. Climatic and environmental factors seemed likely to be determining rather than primary or essential factors. It was these essential causes that so far had eluded us and needed painstaking research to track down, but we did know many potential factors in the production of rheumatism. Quite as difficult was the proper segregation of cases so that the specific causative factors might be attached to the particular types of disease. Side by side with this double task of searching for causes and segregating types, the Council proposed an intensive inquiry into all the accepted methods of treatment at present followed. Other departments of the State had shown confidence in the efforts of the Council. He was now seeking to enlist

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(*Continued from previous page*)

A. A. McNeight, Lieut.-Colonel R. N. Khosla, Captain G. K. Graham, Captain M. M. Mansfield, Captain V. M. Albuquerque, Captain M. G. Leane, Captain R. B. Davis, Temp. Captain Beharilal Kapur, Assistant Surgeon D. J. Upshon, Assistant Surgeon M. C. St. J. Condillac, and G. D. Singh.

the aid of a representative Parliamentary group to help in the education of the public and especially of the leaders of the great industrial organisations. Any member of either house who joined the Parliamentary group would be invited to become a member of the Council.

Sir Alan Anderson, M.P., Sir Patrick Hannon M.P., the Earl of Scarbrough, Sir William Willcox, Dr. Mervyn Gordon, Dr. W. S. C. Copeman, and Sir Frank Fox then spoke briefly, and Sir Francis Fremantle endorsed Lord Horder's hope that many influential lay members of both houses would assist the work of the Council.

Housing and Public Health

In the House of Commons on Feb. 15th Sir KINGSLEY WOOD, the Minister of Health, moved the second reading of the Housing (Financial Provisions) Bill. He said that the Bill was designed to further slum clearance and abate overcrowding, and it also made provision for agricultural housing and for exceptional conditions in small urban areas. The slum clearance programme covered about 400,000 houses, and some 800,000 persons had passed from slums to new and good housing conditions. Others would be dealt with at an average rate of 25,000 a month. Local authorities had been very active in slum clearance. Some 17,000 new houses had been built or approved for the abatement of overcrowding, and one of the principal objects of this Bill was to encourage further efforts in that direction. It was estimated that for the execution of the present programme some 600,000 new houses were required—400,000 for slum clearance and 200,000 for the abatement of overcrowding. About 200,000 houses had already been built and 70,000 were under construction, while houses were being completed at a rate of about 7000 a month. (Cheers.) The same high rate would be maintained during the present year. In the last three months 22,000 houses had been approved, and the December figure of 8742 was the highest since August, 1935. Local authorities had built no less than a million houses since the Armistice. The 400,000 houses still needed would take five or six years to complete. It was the policy of the Government to concentrate Exchequer assistance in urban districts upon houses required for slum clearance and overcrowding which constituted a primary health problem. There were indications that building costs had now reached a peak and would steadily decline.

The arrangements for subsidies in the present Bill would apply to houses completed after Dec. 31st, 1938, and provision had been made for the transitional period. It was proposed to fix the subsidies for slum clearance and overcrowding at the same level. Another important alteration was that the contribution would take the form of an annual payment for 40 years. The uniform subsidy would enable local authorities to let houses at practically the same rates as were contemplated when the subsidy was fixed in 1930. The Bill would help to improve the living conditions of agricultural workers by enabling cottages to be provided at rents from 3*s.* to 4*s.* a week. The two million people who still lived in unsatisfactory conditions would be able to obtain decent accommodation within the next few years. The Bill would help to ensure a measure of planned building for some years ahead.

Mr. ARTHUR GREENWOOD moved an amendment regretting that a Bill had been introduced which would result in higher rents, which substantially reduced the amount of State assistance in respect of slum clearance, abandoned the sound principle of basing the subsidy upon the number of persons rehoused, and revived the objectionable policy of subsidising private enterprise in circumstances which would perpetuate the evil system of the tied cottage in rural areas. Sir P. HARRIS thought that overcrowding was a far more urgent problem than slum clearance and that the subsidy should be per room instead of per house. Mr. CLEMENT DAVIES said that in the course of an inquiry into the incidence of tuberculosis in Wales, he had been greatly impressed by the evidence of medical officers of health and others with regard to bad housing in rural areas. Mr. HERBERT MORRISON said that this Bill would not wipe away the evils of slums and overcrowding but would increase the financial difficulties of the local authorities, slow down the process of slum clearance and hand out subsidies to landlords. Mr. BERNAYS, Parliamentary Secretary to the Ministry of Health, replying to the debate, said that in no sphere of public policy had the National Government been more conspicuously successful than in housing.

The Labour Party's amendment was negatived by 258 votes to 137 and the Bill was read a second time.

On Feb. 17th Sir KINGSLEY WOOD, in moving the financial resolution in connexion with the Bill, said that the main subsidies authorised by it were £5 to £10 per house for slum clearance and overcrowding generally, and £10 for housing of the agricultural population. Additional sums would be allowed in special cases.

The resolution was agreed to by 169 votes to 127.

National Health Insurance Bill

On Feb. 17th Sir KINGSLEY WOOD moved the second reading of the National Health Insurance (Amendment) Bill. He said that the necessity for it arose from a recent judgment of the High Court on the effect of Section 2 (2) of the National Health Insurance Act, 1936, which was formerly Section 10 of the Act of 1935. Before 1935 it was possible for the owner of a business to qualify for an old-age pension on a short period of insurance by transferring the business to a relative and becoming an employee. The section was designed to prevent this "family employment" insurance but it did not say that such employment was not to be employment within the meaning of the Act. The High Court judgment denied to these people certain rights which normally follow cessation of employment, particularly the free insurance period of 18 to 24 months and the right to become insured as a voluntary contributor. The Bill proposed to add family employment to the list of employments which were exempted from compulsory insurance. It also enabled the Minister to reconsider claims for pensions which had failed on this construction of the provisions with regard to family employment and award a pension retrospectively where a claim would have succeeded on the basis of the new wording of the section.

The Bill was read a second time.

In the House of Lords on Feb. 17th, the Middlesex Hospital Bill and the Poor Law Amendment (No. 2) Bill were read a second time, and on Feb. 22nd the Population (Statistics) Bill and the Blind Persons Bill, which have passed the Commons, were read a first time.

QUESTION TIME

WEDNESDAY, FEB. 16TH

"S.O.S." or "M'aider"

Mr. MAGNAY asked the Postmaster General if he was aware that naval and merchant shipping interests resented the misuse of the signal of distress at sea, S.O.S., by the British Broadcasting Corporation and other commentators, including newspapers; and whether he would ask the British Broadcasting Corporation to substitute another designation for its urgent messages to relatives of sick persons.—Major TRYON replied: I am not aware of any resentment against the use by the British Broadcasting Corporation of the designation S.O.S. for urgent broadcast messages to relatives of sick persons. I am informed by the Corporation that such messages have been so designated since 1924 without complaint from any quarter. I understand that by international agreement "M'aider" and not "S.O.S." is used by ships and aircraft for *spoken* signals of distress. I see no adequate reason for asking the B.B.C. to alter their present practice.

THURSDAY, FEB. 17TH

Malnutrition in South Wales

Mr. MAINWARING asked the Minister of Labour whether his attention had been drawn to the continued increase of malnutrition amongst juveniles attending instruction centres situate in Rhondda, in that out of 226 girls examined at the Ynyswen centre 42·5 were certified as requiring additional nourishment, of 128 boys examined at the Trealaw centre 43·4 and of 172 boys at Pontygwarth 24·4 were respectively certified; and whether, in view of the facts disclosed, he was prepared to authorise the provision of a midday meal for those attending.—Mr. ERNEST BROWN replied: I am aware that the latest figures of juveniles in attendance at the three Junior Instruction Centres conducted by the Rhondda Local Education Authority who have been certified as in need of supplementary nourishment have shown an increase on earlier figures. Under the legislation now before Parliament, it will be open to the Rhondda Authority to make proposals for the provision of meals in their centres.

School Meals in Secondary Schools

Mr. GEORGE GRIFFITHS asked the Parliamentary Secretary to the Board of Education whether he could now supply the information on school meals in secondary schools to which he referred in reply to a similar question on July 29th, 1937.—Mr. KENNETH LINDSAY replied: The returns mentioned in my reply of July 26th last have now been summarised, and show that all except 9 of the 133 local education authorities for higher education which provide secondary schools make some provision for school meals, and that in two of the remaining cases the matter is under consideration. In all the grant-earning secondary schools in England and Wales, including schools provided or aided by local education authorities, and some schools which are not aided, the number of pupils (other than boarders) who normally take dinner at school is returned as 85,855. Of these 11,770 receive free dinners for which no cash payment is made, but in addition the parents of many pupils receive maintenance allowances which are intended to cover the whole or part of the cost of school dinners.

Voluntary Mental Patients

Mrs. TATE asked the Minister of Health the number of voluntary patients applying for treatment at public mental hospitals in each year since the passing of the Mental Treatment Act, 1930; and the number of these patients who were subsequently certified.—Sir KINGSLEY WOOD replied: The following are the statistics relating to voluntary patients:—

Year	Admissions	Subsequently certified
1931	1495	65
1932	2295	108
1933	2961	131
1934	4078	129
1935	5834	181
1936	6904	177

Figures for 1937 are not yet available.

Typhoid Outbreak in Somerset

Sir FRANCIS FREMANTLE asked the Minister of Health the number of cases and deaths hitherto notified in the present outbreak of typhoid fever in the county of Somerset; and whether the cause had now been traced.—Sir KINGSLEY WOOD replied: Thirty-nine cases of which the last ten are secondary have been confirmed, and 6 I regret to say were fatal. The cause of the outbreak has not yet been determined. I will let my hon. friend know when he can put down another question on this point.

Chinese Liquid Eggs

Lieut.-Colonel ACLAND-TROYTE asked the Minister of Health whether his attention had been drawn to the report of the county medical officer of Somerset that typhoid fever could be conveyed by eggs; and whether he would prohibit the importation of Chinese liquid eggs to prevent the risk of infection from this source.—Sir KINGSLEY WOOD replied: I am not aware of the report mentioned in the question. I have seen a statement in the press, attributed to an unnamed doctor, that ducks' eggs may transmit typhoid bacilli, but I am advised that there is no evidence to this effect. I see no reason, therefore, for the steps suggested in the second part of the question, especially as laboratory examinations of Chinese eggs have not revealed the presence of any disease-producing organisms.

Hospitals and Price of Milk

Mr. LATHAN asked the Minister of Agriculture, if his attention had been called to the serious difficulties for large consumers of milk, like hospitals, which had arisen from the regulations and fixed prices of the Milk Marketing Board; whether he was aware that in the case of the Sheffield Royal Hospital the average price per gallons had risen since September, 1933, from 1*s.* to 1*s.* 5¼*d.*, and that on a smaller consumption the total cost had risen from £1190 to £1732; and whether any steps were contemplated to secure a reduction in the price of milk for hospitals and similar institutions.—Mr. MORRISON replied: I appreciate that large consumers of milk, such as hospitals, who derived advantage from the disorganised market conditions prevailing before the Milk Marketing Scheme came into force, have now to pay more for milk than formerly; and I would refer the hon. Member to the reply given on this subject on Nov. 22nd last.

Industrial Health Research and Rheumatism

Mr. MARKHAM asked the Minister of Health what sums were allocated yearly to the Industrial Health Research Board, and what part of these was spent on research; and whether this Board had undertaken, or encouraged financially, any researches into the causation or treatment of rheumatism and, if so, with what results.—Earl WINTERTON replied: The Industrial Health Research Board forms part of the Medical Research Council, and has no independent financial provision. The cost of the research work at present directed by the Board is approximately £9500 per annum. The programme has not included any research into rheumatism.

MONDAY, FEB 21ST

Water Engineers

Mr. RHYS DAVIES asked the Minister of Health how many local authorities employed an engineer for water purposes only covering a population of 200,000 and over; and whether, in view of the findings of the Croydon Typhoid Report, he would consider insisting that in all such cases the person responsible for the water-supply should be employed solely for that purpose.—Sir KINGSLEY WOOD replied: According to my information all such authorities, other than the Croydon Corporation, have a water engineer who is employed solely for the purpose of supervising their water-supply undertaking.

Hospitals and the Price of Milk

Mr. WILSON asked the Minister of Agriculture whether he was aware that the Sheffield Royal Hospital, which purchased large supplies of milk, paid in the year October, 1932, to September, 1933, before the Milk Marketing Board operated, an average price of 1*s.* per gallon, and that in the year October, 1936, to September, 1937, the average price paid was 1*s.* 5¼*d.* per gallon; how this increase of 44 per cent. was accounted for; and what steps he was taking to reduce the price of milk to hospitals.

Mr. BOULTON asked the Minister of Agriculture if he would consider whether the cheap milk scheme as applied to schools could be extended to hospitals owing to the enhanced cost of milk, which was throwing a burden on hospitals which they were finding difficult to carry.—Mr. MORRISON replied: The Milk-in-Schools Scheme was initiated with a view to encouraging the milk drinking habit in children. Different considerations apply to the question of the price paid for milk by hospitals, as to which I would refer to the replies given on Thursday last, and on Nov. 22nd last.

Mr. BOULTON asked if the Minister did not think that the hospitals were receiving somewhat exceptional treatment and if he would consider some other method.

Mr. Morrison said that at present the hospitals were getting milk at wholesale rates. He did not see why producers of milk should supply milk below cost price any more than those who supplied bandages should do so.

Replying to further questions, Mr. MORRISON said he was not aware of the statement that had been published that the cost of milk to hospitals had now gone up by £400,000 a year. If there had been an increase in the cost of milk to hospitals, it should be compared with the price charged at the time when the whole industry was in a state of collapse, and if it had not been for the action of the Milk Board there would have been a serious shortage of milk in this country.

TUESDAY, FEB. 22ND

Miners' Nystagmus

Mr. DAVID ADAMS asked the Secretary for Mines the extent to which men partially incapacitated by miners' nystagmus were provided with light work on the surface or underground, respectively, in the collieries of County Durham for the year ended September, 1937, or other convenient date.—Captain CROOKSHANK replied: The latest available information, which relates to September, 1936, is contained in Table D, on page 48, of the report of the Home Office departmental committee on certain questions arising under the Workmen's Compensation Acts, which has just been published—Command Paper No. 5657.

Maternity Services in Scotland

Mr. WESTWOOD asked the Secretary of State for Scotland if he was yet in a position to state the result of the negotiations with the family medical practitioners of Scotland for service to be rendered under the Maternity Services (Scotland) Act, 1937.—Mr. ELLIOT replied: Yes, Sir. Agreement has been reached with the Scottish Committee of the British Medical Association as to the revised terms of remuneration which they are prepared to recommend for acceptance by members of the Association for medical services under the Maternity Services (Scotland) Act, 1937. It has been agreed that the basic fee should be 40s. per case for all attendances during pregnancy, labour and the lying-in period, including antenatal examinations and a postnatal examination. Insured women are entitled to certain antenatal services under the National Health Insurance scheme, and accordingly it has been agreed that in these cases the basic fee should be 36s. The terms will be subject to review at the end of an experimental period of two years. The Department of Health for Scotland are arranging to issue a circular to local authorities as soon as some minor points still outstanding are settled. Mr. Elliot added that there would be some arrangement between the local authorities and the medical practitioners to give effect to the scheme.

Silicosis in South Wales

Mr. JAMES GRIFFITHS asked the Chancellor of the Duchy of Lancaster, as representing the Lord President of the Council, what progress had been made with the investigation into the problem of silicosis at the Ammanford colliery, South Wales; whether it was proposed to extend the investigation to other collieries in the anthracite coalfield; and if he could give some indication as to when the investigations would be completed.—Earl WINTERTON replied: Following the closure of the pit originally selected by the special committee of the Medical Research Council, the investigation into chronic pulmonary disease among coal-miners was transferred to Ammanford early in December and satisfactory progress is being made there both in the medical and in the environmental inquiries. The work at this colliery will probably be completed about the end of March, after which some time will have to be given to a study of the information collected. It is proposed thereafter to extend the investigation to another anthracite colliery, but the selection of a pit will depend on the results of the work at present being done. It is not yet possible to indicate any date for the completion of the investigations as a whole.

Physical Training in Scotland

Sir SAMUEL CHAPMAN asked the Secretary of State for Scotland if he was aware that, in many schools under the local education authorities in Scotland, there already existed gymnasia, swimming-baths, and playing fields which, although used for day and evening school purposes, were free at times when they might be made available for adults and adolescents on payment by the grants committee; and, in places where such facilities did not already exist, would he endeavour to arrange for their provision jointly between the education committees and the National Advisory Council.—Mr. ELLIOT replied: I am aware that gymnasiums, swimming-baths, and playing fields have been provided by many education authorities. The attention of all education authorities has recently been drawn to their powers in this connexion, and to the desirability of making such facilities available for use by voluntary organisations at times when they are not required for school or continuation class use. I am glad to say that increasing use is being made of school premises for these purposes.

Stockton-on-Tees and Nutrition Inquiry

Captain ELLISTON asked the Minister of Health whether he was aware that the town council of Stockton-on-Tees had refused facilities for their medical officer of health to assist the Ministry in the investigation of nutrition problems; and whether such assistance would involve long or frequent absence from local duties.—Sir KINGSLEY WOOD replied: I have been in communication with the town council who have informed me that they very much regret that it is not in present circumstances possible for them to release their medical officer of health, who is a full-time officer of the corporation, to undertake this proposed investigation. The investigation would entail about one day per fortnight for one year.

MEDICAL NEWS

University of Cambridge

On Feb. 19th the following degrees were conferred:—

M.B., B.Chir.—*S. B. Darbishire, *E. B. Hacking, *Morvyn Williams, L. H. Cane, H. G. W. Hoare, J. M. G. Wilson, Geoffrey Sheers, and R. M. Miller.

M.B.—*S. A. Propert, *G. L. Foss, and R. E. Rodgers.

* By proxy.

The Colonial Office

The Secretary of State for the Colonies has appointed Dr. A. J. R. O'Brien, C.M.G., assistant medical adviser in the Colonial Office, to be his chief medical adviser in succession to the late Sir Thomas Stanton.

Dr. O'Brien who is 55 years of age graduated at Edinburgh in 1905. Four years later he obtained the D.P.H. and B.Hy. at Durham and in 1911 he was appointed to the West African Medical Staff and served as medical officer and medical officer of health in the Gold Coast. During the late war he saw active service in both West and East Africa, and was awarded the Military Cross and bar. In 1922 he was appointed specialist in surgery in the Gold Coast and held that post until September, 1929, when he retired. He then paid an official visit to the West Indies to advise upon public health questions. In June, 1930, he was appointed medical secretary to the Colonial Advisory Medical and Sanitary Committee, and in 1933 his appointment became that of assistant medical adviser in the Colonial Office.

Medical Research in Canada

It is announced that a National Medical Research Committee has been formed in Canada with Sir Frederick Banting, F.R.S., as chairman.

Third International Cancer Congress

This congress will be held in September, 1939, in the United States under the auspices of the International Union against Cancer. The president of the congress will be Prof. Francis Carter Wood, director of the Institute of Cancer Research of Columbia University, New York City; the secretary-treasurer is to be Dr. Donald S. Childs of Syracuse, New York; and Dr. A. L. Loomis Bell of Long Island College Hospital, Brooklyn, New York, will be in charge of transportation and exhibits. The proposed sections are as follows: general research; biophysics; genetics; general pathology of cancer; surgery of cancer; radiological diagnosis of cancer; radiotherapy of cancer; statistics; and education. The place of the congress will be the Haddon Hall Hotel, Atlantic City, New Jersey, the date Sept. 11th to 16th, and the membership fee will be $15. All inquiries should be addressed to the Institute of Cancer Research, 1145, Amsterdam-avenue, New York, N.Y.

University of London

At 5 P.M. on Tuesday, March 15th, at University College, Gower-street, W.C., Dr. A. P. H. A. De Kleijn, professor of rhinology, laryngology, and otology in the University of Amsterdam, will lecture on vestibular physiology.

University of St. Andrews

Mr. H. Gordon Campbell, L.R.C.S., L.D.S., has been appointed to the university chair of dentistry recently founded with a gift of £17,500 from Mr. William Boyd, chairman of the Dundee Dental Hospital. Mr. Campbell is lecturer in dental anatomy at the Dundee Dental School.

University of Leeds

Dr. M. J. McGrath, medical superintendent of the West Riding Mental Hospital, has been appointed lecturer in mental diseases in the university.

Medical Society of London

The 163rd anniversary dinner of this society will be held at Claridge's Hotel, London, W., on Tuesday, March 1st, at 7.45 P.M.

Royal Sanitary Institute

Lord Horder will deliver an address, on human reactions to noise, at a meeting of the institute which is to be held on Tuesday, March 8th, at 5.30 P.M., at 90, Buckingham Palace-road, London, S.W.1.

Industrial Eyestrain

Special measures for avoiding eyestrain in processes that need fine or close work are recommended in a pamphlet issued by the Factory Department of the Home Office (Form No. 1983, H.M. Stationery Office, 1937, 1*d*.). The chief means suggested are adequate and suitable glare-free lighting, the correction of refractive errors, and the use of magnifying optical devices. There are also notes on the prescription and wearing of spectacles for fine work.

Demonstrations of Contraceptive Technique

On Thursday, March 3rd, at 2.30 P.M., at the C.B.C. Clinic, a practical demonstration of the technique of the use of a variety of contraceptive methods will be given by Mrs. Marie Stopes, D.Sc., and Dr. Evelyn Fisher. Medical practitioners and senior students should apply for tickets to the hon. secretary, C.B.C., 108, Whitfield-street, London, W.1.

London School of Hygiene and Tropical Medicine

The annual malaria-control course for laymen will be held at the school (Keppel-street, W.C.) from June 27th to July 1st under the direction of Sir Malcolm Watson. Additional lectures have also been arranged on water-supplies, conservancy and sewage-disposal, insulation against heat and cold, and air-conditioning for comfort in the tropics. Further particulars may be had from the organising secretary of the Ross Institute of Tropical Hygiene at the school.

International Conference on Goitre

The American Association for the Study of Goitre announces that the third International Goitre Conference will meet at Washington from Sept. 12th to 14th. The principal subjects for discussion will be endemic goitre, cretinism, and myxœdema; the thyroid in relation to metabolism, nutrition, and endocrine glands; and hyper-thyroidism. Dr. Allen Graham, 2020, East 93rd-street, Cleveland, Ohio, is chairman of the programme committee.

Tuberculosis Hospital in Buenos Aires

One of the largest tuberculosis hospitals in the world is shortly to be inaugurated in Buenos Aires. The government has made a grant of 3,000,000 pesos (about £200,000) for its erection and of 1,000,000 pesos (£66,000) a year for its upkeep. The building is to have 14 storeys and it stands on a 15-acre site near the centre of the city which is to be planted with pine, eucalyptus, and other trees with medicinal qualities. It will be equipped for the treatment of 1200 in-patients. It will also have facilities for research and will be the headquarters of a national antituberculosis campaign.

Order of the Nile

The King has given permission to Prof. C. A. Bentley to wear the insignia of commander of the Order of the Nile, which has been conferred upon him by the King of Egypt in recognition of his services.

Course of Child Psychology

A vacation course on child psychology will be held from April 20th to 25th at Southlands Training College, Wimbledon Park Side, S.W. This course will be given in two concurrent sections: one for matrons of schools, and one for school medical officers and teachers. Further particulars can be had from the secretary of the Child Guidance Council, Woburn House, Upper Woburn-place, London, W.C.1.

Committee against Malnutrition

A public meeting will be held by this committee on Thursday, March 3rd, at 8 P.M., at the Royal Society of Arts, 18, John-street, Adelphi, W.C. Prof. V. H. Mottram will be in the chair, and Prof. W. E. Le Gros Clark, Dr. Janet Vaughan, Miss Marjorie Green, and Prof. J. R. Marrack will speak on The Path of National Fitness. Tickets may be had from the hon. secretary of the committee, 19c, Eagle-street, London, W.C.1.

Hunterian Society

The annual banquet of this society, to celebrate the 210th anniversary of the birth of John Hunter, was held at the May Fair Hotel, London, on Feb. 17th, with Dr. D. C. Norris, the president, in the chair; some 250 fellows and guests were present. After the loyal toast had been duly honoured Lord Snell, chairman of the London County Council, proposed the health of the society. The president replied to the toast and presented the society's gold medal to Dr. John Wilson Reid, of Beaumaris, Anglesey, for the winning essay of the year on the Prognosis and Care of Heart Disease in General Practice. The toast of The Visitors and Kindred Societies was given by Mr. Alex E. Roche, and responded to by Judge Earengey, K.C., Sir John Stavridi, and Mr. Hugh Lett. Entertainment was provided by Giovanni.

Society of Radiographers

At the seventeenth annual dinner of this society, held at Frascati's, London, on Feb. 19th, there was a record attendance of some 210 members and guests—so many that a part of the company had to dine in an adjoining room. Mr. G. W. C. Kaye, D.Sc., who presided, proposed The Guests. Mr. C. Thurstan Holland, F.R.C.S., responding, gave an account of his early days as a pioneer in the use of X rays. When he was radiologist to the Royal Southern Hospital, Liverpool, from 1896 to 1904, he had to be also his own radiographer. He had his first real assistant when he worked at the Royal Infirmary, and had then formed a high opinion of radiographers which he had never had occasion to change. Mr. Cuthbert Andrews, proposing the toast of The Society, said that since its foundation 16 years ago there had been many changes in the status of radiographers. Before then they had been entirely unorganised, without special education or qualifications, or opportunity to express their views. They had no fixed five-day week or month's holiday, no blood counts to protect them from danger, and no salary to speak of. Now they were united, strong, and growing, an essential part of the British Institute of Radiology. They had a home, a library, a practical room, and their own journal. They must not under-rate their privileges in belonging to the institute, which in its turn appreciated the value of their close coöperation. Dr. Kaye, in reply, said that the society had grown steadily until at present it numbered over 1100. The qualification M.S.R. was now a synonym for efficiency. Recognition by the Board of Registration of Medical Auxiliaries had been a great step forward. The society had four branches—South-West, Scottish, Johannesburg, and Melbourne—and there was a friendly spirit between these and the provincial societies who might one day he hoped come into the fold. Dr. Kaye then presented the Sir Archibald Reid memorial medal to Miss A. M. V. Ash, M.S.R., and the medal for the Stanley Melville memorial lecture to Mr. H. T. Ferrier, F.S.R. A presentation was also made to Mr. F. Melville in recognition of his services as secretary of the society.

University of Wales

During the session 1938–39 a Mrs. John Nixon scholarship (value £150), a Lord Merthyr scholarship (value £200), and a Ewen Maclean scholarship (value £150) will be available. Further particulars may be had from the registrar, University Registry, Cathays Park, Cardiff.

Ophthalmic Medical Practitioners' Group

The third meeting of this group will be held at 18, Russell-square, London, W.C.1, on March 5th at 3 P.M. The full agenda will be sent on application to the hon. secretary of the group at 100 Greyhound-lane, London, S.W.16.

Royal Society of Medicine

A reception will be held by the president and officers of this society at 1, Wimpole-street, London, W., at 8.30 P.M., on Wednesday, March 16th, when Mr. F. J. Osborn will lecture on garden cities and town planning.

Congress for Digestive and Metabolic Disorders

The fourteenth congress of the Gesellschaft für Verdauungs- und Stoffwechselkrankheiten will be held at Stuttgart from Sept. 22nd to 24th. Prof. Grafe (Würzburg) will preside and the principal subjects for discussion will be lipoidosis, glycogen storage disease, modern insulin treatment, pancreatitis, and gastro-intestinal auto-intoxication. Further information may be had from Prof. H. von Hoesslin, Fasanenestr. 27, Berlin W. 15.

Society of Apothecaries of London

At Tuesday's livery dinner Sir StClair Thomson proposed the toast of The Society and recalled that on Sept. 6th, 1881, he had left the building to send a telegram: "Dearest Mother I am licensed to kill." The Society's licence had launched him on 57 very happy years of medical practice, and as a mark of his gratitude he asked the master to accept a piece of "Lambeth Delft" glazed pottery bearing the arms of the Society. The function of these slabs was doubtful; they may (though rather small) have been used for pill-rolling; they may have been given to each new freeman (but there were no records of this); or they may have been a shop sign to distinguish the apothecary from the grocer. The date must have been between 1620 when the Society obtained its arms and 1780 when the Lambeth pottery was discontinued. The coat-of-arms as represented on the slab suggested vigour and possibly even a prophetic understanding of the importance of organotherapy. Mr. Hugh Lett, the master, who agreed that the society was collectively rampant and flourishing, spoke of the promotion to the livery of Mr. W. T. Withers—a "very distinguished servant of the Society"—who had come to the Apothecaries' Hall as assistant beadle in 1887 and in the course of his devoted work had won the affection of all those who came in contact with him, including unsuccessful candidates. After making a presentation to Mr. Withers Mr. Lett referred to the new lighting of the pictures in the next room, including Reynolds's portrait of John Hunter in a beard, and mentioned the discovery by Dr. E. A. Bullmore of a memorial tablet in Wisbech to Robert Harris, a seventeenth century master of whom it was said that "he was a man who had the good heart to enjoy his plentiful share of this world's goods." Mr. L. Vernon Cargill, junior warden, proposing the health of The Guests recalled that both Sir StClair and himself had been house surgeons to Lister, in 1883 and 1890–91 respectively. Dr. G. C. Anderson, secretary of the British Medical Association, responding, said he was convinced that the medical profession should administer a corrective to the information supplied to the public on medical and sociological questions. The traditional and dignified silence might have done, and might still do, something to discredit irresponsible allusions to the work of doctors, but it did nothing to throw into relief the impracticable advice given to the people. Misconduct and censure in the profession, rather than the commoner loyalty and zeal, created news for publication. In scientific matters "the public does not appreciate what we appreciate" and in Dr. Anderson's opinion an element of the dramatic was necessary if the medical point of view was to be conveyed.

Meteorological Office

Mr. N. K. Johnson, M.Sc., has been appointed director of the Meteorological Office in succession to Sir George Simpson, F.R.S., who retires in September.

International Anthropological Congress

The second International Congress of Anthropological and Ethnological Sciences will be held at Copenhagen from August 1st to 6th under the presidency of Prof. Thomas Thomsen. Further information may be had from the hon. secretary of the congress, National Museet, 10, Ny Vestergade, Copenhagen.

Air-Raid Precautions Medical Officer

In our advertisement columns this week the Corporation of Bristol invites applications for the post of assistant medical officer of health for air-raid precautions from medical men who have received training in air-raid precautions and have knowledge of anti-gas work. The appointment will be temporary in the first instance.

Congress of Obstetrics and Gynæcology

On the occasion of its fiftieth anniversary the Dutch Gynæcological Society is organising an International Congress of Obstetrics and Gynæcology in Amsterdam from May 4th to 8th, which will be the first since the 1912, international congress in Berlin. The main subjects for discussion will be eclampsia, thrombosis and embolism, and hormones. The general secretary of the congress is Dr. F. C. van Tongeren, University Clinic of Obstetrics and Gynæcology, Wilhelminagasthuis, Amsterdam, W.

The Mortality from Tuberculosis

Mr. Herwald Ramsbotham, the Minister of Pensions, speaking in support of the national health campaign at Preston last week spoke of the great importance of early treatment both for tuberculosis and for venereal disease. Each year, he said, the names of between 13,000 and 14,000 persons were removed from the registers of the tuberculosis dispensaries as having recovered, but an even greater number were written off as having died, and in almost all these cases medical advice was sought when it was too late. Last year nearly five times as many people were killed by tuberculosis as were killed on the roads.

Tuberculosis Association

This association will hold its provincial meeting at the Dunn Laboratories, Oxford, on April 7th, 8th, and 9th, under the presidency of Dr. S. R. Gloyne. On the first day Dr. Heimbeck (Oslo), Dr. H. H. Bashford, Dr. Campbell Faill, and Miss G. M. Bowes (matron of the Birmingham Hospital Centre) will read papers on the incidence of tuberculosis in young adult women with special reference to employment, and Prof. G. R. Girdlestone and Dr. W. Stobie will discuss problem cases. On the following day Mr. R. C. Brock and Mr. T. Holmes Sellors will speak on extrapleural pneumothorax, and Dr. G. C. Williams, Dr. H. G. Trayer, Dr. F. H. Young, Dr. Neville Irvine, and Dr. A. M. Cooke on what can be done to prevent the tuberculous patient relapsing. At the last session Dr. Felix Fleischner (Vienna) and Dr. A. E. Barclay will be among the openers of a discussion on the progress of radiology. Further information may be had from Dr. N. England, 1, Becket-street, Oxford.

NURSING HOMES, 1938.—Messrs. Benn Brothers (Bouverie House, Fleet-street, London, E.C.4) have sent us a copy of the eighth edition of their directory of registered nursing and convalescent homes in England, Wales, and Scotland. The list is arranged topographically, and under each town is found the names, addresses, and telephone numbers of its nursing-homes with their appropriate descriptions (med., surg., mat., or conv.). Homes which supply nurses for outside work are indicated with an asterisk. It would be a gain if in later editions a note of the number of beds available at each home could be added. The book contains 273 pages and costs 3*s.* 6*d.*

Medical Diary

February 28th to March 5th

SOCIETIES

ROYAL SOCIETY OF MEDICINE, 1, Wimpole-street, W.
MONDAY.
Odontology. 8 P.M., Mr. R. E. Rix: The Relationship of Pre-normal Occlusion to the Early Loss of Deciduous Molars. Mr. G. T. Hankey: Three Unusual Tumours.
TUESDAY.
Orthopædics. 5.30 P.M. (Cases at 4.30 P.M.). Mr. D. McCrae Aitken: The Robertson Lavalle Operation for Tuberculous Joints. Mr. H. Jackson Burrows: (1) Osteoclastoma of the Upper End of the Femur. Mr. A. T. Fripp: (2) Ununited Fracture of the Tibia. Mr. John Bastow: (3) Brodie's Abscess of Head of Tibia. (4–5) Spontaneous Dislocation of the Cervical Spine in Children. Mr. G. O. Tippett: (6) Excision of Patella for Fracture, (7) Excision of Patella for Osteoarthritis, (8) Osteochondritis of the Ischio-pubic Bones.
Pathology. 8 15 for 8.30 P.M., Laboratory meeting at the London Hospital, E.
WEDNESDAY.
History of Medicine. 5 P.M., Sir StClair Thomson: Enamel Miniatures of Sir Théodore Turquet de Mayerne (1573–1655) and of Dr. Richard Mead (1673–1754). Capt. P. J. Johnston-Saint: A Historical Survey of Faith Healing.
Surgery, Medicine, Anæsthetics. 8.30 P.M., Mr. C. Price Thomas, Dr. J. Maxwell, and Dr. E. H. Rink: Massive Collapse of the Lung as a Complication of Surgical Operations.
FRIDAY.
Otology. 10.30 A.M. (Cases at 9.30 A.M.). Mr. Lionel Colledge and Mr. Douglas Crow: Lateral Sinus Thrombosis and Its Treatment.
Laryngology. 5 P.M. (Cases at 4 P.M.). Mr. A. M. Zamora and Mr. H. V. Forster: Physical Methods in Suppurative Conditions of the Nose and Throat.

MEDICAL SOCIETY OF LONDON, 11, Chandos-street, W.
MONDAY.—8.30 P.M., Prof. Henry Cohen and Mr. C. W. G. Bryan: The Causes and Treatment of Flatulence.
WEDNESDAY.—9 P.M., Dr. George Graham: A Survey of the Changes and Results of Treatment of Diabetes in the Last 15 Years. (Second Lettsomian lecture.)

HUNTERIAN SOCIETY.
MONDAY.—9 P.M. (Mansion House, E.C.), Sir Frederick Hobday: John Hunter—Pioneer of Veterinary Science.

WEST LONDON MEDICO-CHIRURGICAL SOCIETY.
FRIDAY.—8.30 P.M. (West London Hospital, W.), Dr. Donald Hunter: Industrial Diseases.

LECTURES, ADDRESSES, DEMONSTRATIONS, &c.

ROYAL COLLEGE OF PHYSICIANS, Pall Mall East, S.W.
TUESDAY.—5 P.M., Dr. B. E. Schlesinger: The Public Health Aspect of Heart Disease in Childhood. (Last Milroy lecture.)
THURSDAY.—5 P.M., Dr. C. C. Ungley: Some Deficiencies of Nutrition and their Relation to Disease. (First Goulstonian lecture.)

ROYAL COLLEGE OF SURGEONS OF ENGLAND, Lincoln's-Inn-fields, W.C.
MONDAY.—5 P.M., Dr. L. W. Proger: demonstration of new museum specimens.
FRIDAY.—5 P.M., Dr. A. J. E. Cave: Anatomy of the Tongue.

UNIVERSITY OF BIRMINGHAM.
THURSDAY.—4 P.M., Prof. F. R. Fraser: Clinical Applications of Chemical Transmission by Acetylcholine.

ROYAL INSTITUTE OF PUBLIC HEALTH AND HYGIENE, 28, Portland-place, W.
WEDNESDAY.—3.30 P.M., Dr. R. Cove-Smith: The Use and Abuse of Physical Training.

BRITISH POSTGRADUATE MEDICAL SCHOOL, Ducane-road, W.
WEDNESDAY.—Noon, clinical and pathological conference (medical). 2 P.M., Dr. J. G. Scadding: Respiratory Function in Disease (1). 3 P.M.: clinical and pathological conference (surgical) 4.30 P.M., Dr. Dorothy Russell: Tumours of the Central Nervous System and Meninges.
THURSDAY.—2.15 P.M., Dr. Duncan White: radiological demonstration. 2.30 P.M., Mr. L. R. Broster: Surgical Application of Endocrinology with Special Reference to the Adrenal Glands. 3.30 P.M., Mr. A. S. Parkes, F.R.S.: The Female Sex Hormones.
FRIDAY.—2 P.M., clinical and pathological conference (obstetrics and gynæcology).
Daily, 10 A.M. to 4 P.M., medical clinics, surgical clinics and operations, obstetrical and gynæcological clinics and operations.

NATIONAL HOSPITAL, Queen-square, W.C.
MONDAY.—3.30 P.M., Dr. C. P. Symonds: Cerebral Tumours (1).
TUESDAY.—3.30 P.M., Dr. Grainger Stewart: Spinal Compression.
WEDNESDAY.—3.30 P.M., Dr. F. M. R. Walshe: clinical demonstration.
THURSDAY.—3.30 P.M., Dr. C. Hinds Howell: Poliomyelitis.
FRIDAY.—3.30 P.M., Dr. J. St. C. Elkington: Acute Infectious Disease of the Brain.
Out-patient clinic daily at 2 P.M.

HOSPITAL FOR SICK CHILDREN, Great Ormond-street, W.C.
THURSDAY.
2 P.M., Dr. R. S. Frew: Cœliac Disease. 3 P.M., Mr. A. Simpson-Smith: Neonatal Abdominal Emergencies.
Out-patient clinics daily at 10 A.M. and ward visits at 2 P.M.

ST. GEORGE'S HOSPITAL, S.W.
THURSDAY.—5 P.M., Dr. Antony Feiling: neurological demonstration.

CENTRAL LONDON THROAT, NOSE, AND EAR HOSPITAL, Gray's Inn-road, W.C.
FRIDAY.—4 P.M., Mr. W. G. Scott-Brown: Allergy.

HAMPSTEAD GENERAL AND NORTH-WEST LONDON HOSPITAL.
WEDNESDAY.—4 P.M., Dr. H. V. Morlock: The Treatment of Some Acute Respiratory Conditions.

FELLOWSHIP OF MEDICINE AND POSTGRADUATE MEDICAL ASSOCIATION, 1, Wimpole-street, W.
MONDAY to SATURDAY.—ROYAL WATERLOO HOSPITAL, Waterloo-road, S.E., all-day course in medicine, surgery, and gynæcology.—F.R.C.S. (PRIMARY) COURSE IN PHYSIOLOGY, Mond., Wed., and Fri. at 5.30 P.M.—NATIONAL TEMPERANCE HOSPITAL, Hampstead-road, N.W., Tues. and Thurs., at 8 P.M., M.R.C.P. clinical and pathological course.

ST. JOHN CLINIC AND INSTITUTE OF PHYSICAL MEDICINE, Ranelagh-road, S.W.
FRIDAY.—4.30 P.M., Dr. Francis Bach: Physical Medicine in Diseases of the Cardiovascular System.

SOUTH-WEST LONDON POST-GRADUATE ASSOCIATION, St. James' Hospital, Ouseley-road, S.W.
WEDNESDAY.—4 P.M., Mr. E. G. Muir: Some Minor Disorders of the Rectum.

LEEDS GENERAL INFIRMARY.
TUESDAY.—3.30 P.M. (at the Maternity Hospital), Mr. D. W. Currie: demonstration of obstetric cases.

MANCHESTER ROYAL INFIRMARY.
FRIDAY.—4.15 P.M., Mr. A. Graham Bryce: post-graduate demonstration.

ANCOATS HOSPITAL, Manchester.
THURSDAY.—4.15 P.M., Dr. G. J. Langley: Coronary Occlusion.

GLASGOW POST-GRADUATE MEDICAL ASSOCIATION.
WEDNESDAY.—4.15 P.M. (Western Infirmary), Mr. W. W. Galbraith: Urological Cases.

Vacancies

For further information refer to the advertisement columns

Aberdeen City.—Regional M.O. for Maternity and Child Welfare, £850.
Albert Dock Hosp., Connaught-road, E.—Res. M.O., at rate of £110.
Birmingham Children's Hosp.—Res. M.O., £175.
Birmingham City.—Temp. M.O. to Maternity and Child Welfare Dept., £10 per week.
Birmingham, Coleshill Hall.—Deputy Med. Supt., £500.
Birmingham, Royal Cripples Hosp.—Res. H.S., at rate of £200.
Bradford Children's Hosp.—H.P., £150.
Bradford, Municipal General Hosp., St. Luke's.—H.P.'s and H.S.'s, each at rate of £150.
Brighton County Borough Mental Hosp., Haywards Heath.—Second Asst. M.O., £500.
Bristol City and County.—Asst. M.O.H. for Air-raid Precautions, £500–£700.
Bristol Eye Hosp.—Jun. H.S., at rate of £100.
Burnley, Victoria Hosp.—H.P., at rate of £150.
Burton-on-Trent General Infirmary.—Sen. H.S., £200.
Central London Throat, Nose, and Ear Hosp., Gray's Inn-road, W.C.—Registrar and Clin. Tutor, £300. Also Third Res. H.S., at rate of £75.
Central Midwives Board, 23, Great Peter-street, S.W.—Supernumerary Examiners.
Charing Cross Hosp., W.C.—Surg. Reg., £150.
Chester City Hosp.—Jun. Res. M.O., £200.
Chesterfield and North Derbyshire Royal Hosp.—Cas. O. and Fracture H.S., at rate of £200.
Colchester, Royal Eastern Counties' Institution, &c.—Asst. M.O., £400.
Colonial Medical Service.—M.O. for Gibraltar, £600.
Coventry and Warwickshire Hosp.—Two H.S.'s to Special Dept., each £150.
Dagenham Urban District Council.—Deputy M.O.H., £600.
Derby, Bretby Hall Orthopædic Hosp.—Jun. Res. Asst. M.O., £350.
Derbyshire County Council.—Asst. County M.O.H., £700.
Derbyshire Royal Infirmary.—H.S. to Ear, Throat, and Nose Dept., £150.
Doncaster Royal Infirmary and Dispensary.—Cas. H.S., £175.
Dorset County.—Asst. County M.O. and M.O.H., £800.
Dreadnought Hosp., Greenwich.—H.P. and H.S., each at rate of £110.
Dudley, Guest Hosp.—Two H.S.'s, £100–£130.
Eastbourne, Royal Eye Hosp.—H.S., £100.
Elizabeth Garrett Anderson Hosp., Euston-road, N.W.—Two Clin. Assts. to Ophthalmic Dept., each £50.
Evelina Hosp. for Sick Children, Southwark, S.E.—Fourth Physician, 50 guineas.
Exeter, Princess Elizabeth Orthopædic Hosp.—Res. H.S., at rate of £150.

Exeter, Royal Devon and Exeter Hosp.—Res. Surg. O., £250. Also two H.S.'s, each at rate of £150.
Guildford, Royal Surrey County Hosp.—H.S., and H.P. and Cas. O., each at rate of £150.
Harefield Sanatorium.—Jun. Res. Asst. M.O., at rate of £250.
Hertford County Hosp.—H.S., at rate of £200.
His Majesty's Colonial Service.—Government Pathologist in British Guiana, £800.
Hosp. of St. John and St. Elizabeth, 60, Grove End-road, N.W.—Asst. Phys.
Ilford, King George Hosp.—Res. Anæsthetist and H.P., at rate of £150.
Infant Welfare Centre, General Lying-in Hosp., York-road, S.E.—M.O.
King Edward Memorial Hosp., Ealing, W.—Cas. H.S., at rate of £150.
Leamington Spa, Warneford General Hosp.—Res. H.P., at rate of £150.
Leicester Royal Infirmary.—H.S. and H.P., each at rate of £125. Also Jun. Cas. O., at rate of £100.
Leigh Infirmary, Lancs.—Jun. H.S., at rate of £150.
Liverpool, David Lewis Northern Hosp.—Cas. O., at rate of £120.
London County Council.—Asst. M.O.'s, Grade I and II, £350 and £250 respectively.
London Homœopathic Hosp., Great Ormond-street, W.C.—H.P., at rate of £100.
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Appointments

BONNELL, H. E., B.Sc. Wales, M.R.C.S. Eng., Hon. Pathologist to the South-Eastern Hospital for Children, Sydenham.
CLARK, A. P. C., M.D., Junior Assistant Medical Officer at Knowle Mental Hospital, Fareham.
FALLA, S. T., M.D., M.R.C.P. Lond., Assistant Physician to the Jenny Lind Hospital for Children, Norwich.
HOWELLS, G. H., M.B. Lond., F.R.C.S. Eng., Hon. Assistant Laryngologist at the British Red Cross Society's Clinic for Rheumatism, London.
MCCOMAS, H. G., M.D., M.R.C.P. Lond., Assistant Physician to the Croydon General Hospital.
MEREWETHER, H. O. M., M.B., F.R.C.S. Edin., Hon. Assistant Surgeon to the Royal Victoria Hospital, Folkestone.
PARTRIDGE, G. T., M.B. Camb., F.R.C.S. Eng., Orthopædic Surgeon at the Chester Royal Infirmary.
SEELIG, S. F., M.D. Berlin, L.R.C.P. Edin., Medical Registrar at St. John's Hospital, Lewisham.
SHAW, MARY M., M.B., Director of the V.D. Department at the Royal Free Hospital.
TAYLOR, R. H., M.B. N.U.I., Medical Registrar at St. Mary's Hospital, London.
THOMPSON, B. G., M.D. Edin., D.M.R., Radiologist at the Royal Halifax Infirmary.

Births, Marriages, and Deaths

BIRTHS

BEST.—On Feb. 16th, at Harrogate, the wife of Dr. Thos. A. Best—a daughter.
BUCKLEY.—On Feb. 20th, at Bentinck-street, the wife of Dr. John Buckley—a daughter.
FRAZER.—On Feb. 19th, at a nursing home, Hampstead, N.W., to Dr. Kathleen Frazer, wife of Dr. R. B. F. Frazer, barrister-at-law—a daughter.
KENNERLEY.—On Feb. 16th, at Rotherham, the wife of Dr. Tordiff A. S. Kennerley—a son.
O'KEEFFE.—On Feb. 21st, at Tring, the wife of Dr. C. E. O'Keeffe—a daughter.
PYPER.—On Feb. 18th, the wife of Lieut.-Colonel J. C. Pyper, O.B.E., I.M.S., Civil Surgeon, Quetta—a son.
SPALDING.—On Feb. 17th, at Bentinck-street, the wife of Mr. J. E. Spalding, F.R.C.S.—a son.

MARRIAGES

COBBE—BLAKE.—On Feb. 19th, at St. James', Sussex-gardens, Clifford J. Cobbe, M.B., to Beatrice Aileen Blake, M.B., younger daughter of Mr. and Mrs. J. A. Blake, of Petersfield, Hants.
HEAD—GRIFFIN.—On Feb. 19th, at Glasgow, Lieut.-Comdr. Henry William Head, elder son of Mr. Head, of Winchester, to Mary Alice McKechnie Griffin, M.D., elder daughter of Mr. Griffin, of Glasgow.

DEATHS

FISH.—On Feb. 15th, Richard Huxley Fish, M.D. Camb., M.R.C.P. Lond., physician to Harefield Sanatorium, aged 32.
GILBERTSON.—On Feb. 22nd, at Hitchin, James Henry Gilbertson, M.R.C.S. Eng., aged 77.
LONGMIRE.—On Feb. 15th, at Cambridge, Dr. Mary Longmire M.B. Glasg., for 30 years a missionary of the Church of England Zenana Missionary Society at Khammamett, S. India, and latterly of Norway.
LUND.—On Feb. 18th, at Pendleton, Manchester, Herbert Lund, F.R.C.S. Eng., second son of the late Edward Lund, F.R.C.S., in his 80th year.
SIMMONS.—On Feb. 22nd, Harold Simmons, M.B. Durh., 31, Wimborne-road, Bournemouth.
WHITE.—On Feb. 10th, at Strone-road, Manor Park, Essex, Sara E. White, M.B., B.Sc. Lond., in her 83rd year.

N.B.—A fee of 7s. 6d. is charged for the insertion of Notices of Births, Marriages, and Deaths.

A COMPARISON OF ANTIPYRETICS

ADAPTING Marks's "cross-test" method of physiological standardisation, G. Brownlee has compared the antipyretic activity and toxicity of phenacetin and aspirin (*Quart. J. Pharm.* 1937, **10**, 609). As a result of two series of comparisons, using different doses of each drug on rats and cats, he found that aspirin has only 60 per cent. of the antipyretic activity of phenacetin. The toxicity of these two drugs given by mouth to mice was afterwards compared and found to be the same, whence Brownlee concludes that, if an antipyretic effect only is desired, phenacetin is to be preferred to aspirin.

NOTES, COMMENTS, AND ABSTRACTS

SALERNO AND VIKING SURGERY

THE first medical school in Europe in modern times was that of Salerno, in South Italy, originally a Greek trading colony. It was founded in A.D. 846, probably by the Benedictines, but the circumstance which determined its development at that period was the happy fusion in Magna Graecia of two distinct cultural traditions, Arabian and Renaissance. The school maintained a prominent position for 500 years, reached the summit of its fame in the twelfth century, and ceased to exist only in 1811.

The attention paid to surgery at Salerno and the frequency with which surgical intervention was attempted at this early date are remarkable. The development of modern surgery may indeed be said to have begun in this school and important contributions were made to surgical knowledge. Its text-books (Roger's and the Four Masters) have been called the foundation-stones of modern surgery, and it is obvious that the authors, far from being the slaves of authority, drew their opinions from a wide experience.

In spite of the contemporary fame of the Salerno school it would appear improbable, a priori, that the Saga literature of the Viking period in the north should reflect the influence of its teaching. Nevertheless Dr. I. Reichborn-Kjennerud of Oslo, who is well known for his studies in early Scandinavian medical history, is able to demonstrate a clear relationship (*Ann. med. Hist.* 1937, **9**, 321). He recalls that the school of Salerno was at its height during the first half of the Viking period; that numerous Norsemen served in the Varangian Guard at Constantinople; and that many others accompanied the Crusades or went independently on pilgrimages. He might have added, also, that although it was not until the late twelfth century that the first Norman was crowned king of the two Sicilies, yet Norman settlers had been established in Sicily, Campania, and Apulia for generations before.

Much of the surgical information embodied in the Sagas and in "Grágás," the old Icelandic law-book, which devotes a section to wounds, refers to the Scandinavian custom of *weregild*—i.e., the indemnity, in lieu of a blood feud, paid by way of redress for the slaying or wounding of another. It was the right and duty of a family to avenge the death or wounding of one of its members. The indemnity was equivalent to buying off the family revenge and ending the inevitable feud. The amount of the indemnity varied according to the rank of the persons concerned, but also, in the case of non-fatal wounds, according to the nature of the injury. Thus, a rough classification of wounds was devised in order to facilitate the calculation of fines.

The most serious injuries were those that penetrated into the brain, into a body cavity, or into the bone-marrow; wounds of the face; severance of a muscle; fractures, compound or comminuted; and wounds which required cauterisation, probably in order to arrest hæmorrhage. Wounds in the back received a double indemnity. The wounder had to pay for medical attendance, the healing fee, and provide food for a month for both the wounded man and his physician. An instrument known as *keri* was used to ascertain the depth of a wound, and Reichborn-Kjennerud shows that this word is a translation of the Middle Ages Latin *tenta*, which was probably a probe made of laminaria, and is used in the Salernitan books.

Degrees of severity were also estimated by the nature of the treatment required. For example, the indemnity was high if the patient was confined to bed. Certain serious wounds required treatment with *spik and spiaer*, an ancient technical expression which has always puzzled the commentators. Reichborn-Kjennerud has shown, however, the proper interpretation—viz., with lard and lint—from a cognate term in the Salernitan books.

Among the operations described in the Sagas is a method of opening an abscess with a red-hot iron; the treatment of fracture of the skull, involving careful removal of fragments at the time of high tide, when the brain with its membranes were supposed to bulge into the opening, and dressing the wound with "water-moss" (compare the use of sphagnum as a dressing during the late war); the secondary fracture of long bones to correct malposition; and phlebotomy. There is a description of an operation for stone in the bladder by Ravn Sveinbjörnsson about 1200. This was a urethrotomy between two ligatures, as described in Constantin's "Liber Pantegni." In 1247 an operation for hare-lip was performed in Bergen, which at that time was the seat of a bishopric which included the Isle of Man, the Hebrides, and Orkney and Shetland, all of which then belonged to Norway. It is interesting to note that Roger, by prescribing the ash of seaweed for goitre, anticipated the modern iodine treatment. Dr. Reichborn-Kjennerud gleans many other examples of Salernitan influence from the surgical practice revealed in Saga literature, a source that until now has remained unexplored by medical historians.

IMMUNITY REACTIONS OF VIRUSES

ANYONE familiar with the literature of viruses is aware of the prominent part that F. M. Burnet has taken in the research of recent years. He has been particularly interested in the reactions of viruses and their antisera, and both in this country, while working at the National Institute in Hampstead, and since his return to Australia, he has published much on this subject. In his investigations at the Walter and Eliza Hall Institute in Melbourne, Burnet has been associated with E. V. Keogh and Dora Lush and their collaboration has now extended to the preparation of a monograph on the immunity reactions,[1] now reprinted from the *Australian Journal of Experimental Biology and Medical Science*.

The first two chapters are introductory. Quite rightly the authors deem it necessary, before proceeding to their main subject, to say a few words about the probable nature of viruses and about modern views on antigen-antibody reactions. Most virus workers will agree with them that viruses can be most usefully considered as independent living micro-organisms but not everyone will accept the view that the group at the National Institute of Medical Research have led the way in formulating this conception. Observations of the greatest value have come from this institute and the investigations of W. J. Elford and J. E. Barnard evoke unstinted admiration. But the fact that viruses can be measured and seen and photographed in their natural state is only part, and not even the most important part, of the evidence in support of their being alive.

The chapter on the modern conception of antigen-antibody reactions is, as the authors admit, largely based on J. R. Marrack's valuable monograph. Following this come a number of chapters in which the interaction of representative viruses and their antisera are considered in detail. That on the bacteriophage—the longest of all—is concerned almost exclusively with the experimental work of Burnet with a large coli-dysentery phage C16. The percentage law of Andrewes is confirmed and discussed and the evidence in support of the existence of receptors on the phage particle for antibody on the one hand, and the bacterial cell on the other (the A and B receptors) is considered. The union of phage and antibody is shown to be fundamentally similar to other antigen-antibody reactions, apparent differences being due to the small size of the phage particle and the relatively small number, concerned in these

[1] The Immunological Reactions of Filterable Viruses. By F. M. Burnet, E. V. Keogh, and Dora Lush. University of Adelaide, 1937. Pp. 141. 10*s*. Obtainable from the librarian of the University, or from H. K. Lewis and Co., London.

reactions. The next chapter deals with the immunology of plant viruses—or more correctly the virus of tobacco mosaic, since this one has alone been adequately studied. Here, at first sight, the reactions exhibited differ from what has been found in the case of the bacteriophages or the animal viruses. Nothing approaching the percentage law pertains and dilute serum gives no neutralisation of virus unless the latter is adequately diluted. But, as Burnet and his colleagues point out, these differences are due to the enormously greater concentration of antigen in the mosaic virus-antibody system—antigen and antibody are in almost equal proportions—whereas with phage and animal viruses the virus particles are surrounded by an overwhelming excess of antibody.

Before proceeding to a detailed discussion of the immunity reactions of a selection of animal viruses, the authors devote a chapter to some general considerations respecting these reactions. The reason why these reactions should be reversible and the possibility of their proceeding to a less reversible or even firm union is discussed and they conclude, as M. H. Merrill has already done, that the reactions will stop short of visible aggregation even should the union become a firm one, so long as the antigen concentration falls below a certain critical level. Complement fixation comes somewhere between neutralisation and visible aggregation but still requires a high concentration of antigen. With these points in mind, the reactions of certain animal viruses and their antisera, as studied by the egg technique, are analysed. According to Burnet the use of the chorio-allantoic membrane of the developing egg offers a means of virus titration of great accuracy than any hitherto employed. The conclusion reached is that, here also, the reactions do not differ fundamentally from other antigen-antibody reactions. The view is held that neutralisation of a virus is due to union between virus and antibody, the coating of the virus particle with antibody globulin rendering it more difficult for the virus to enter a susceptible cell and to multiply once it has reached this situation.

The concluding chapters of this admirable monograph deal with such questions as the site of antibody formation, virus immunity considered from a biological point of view, and active immunisation against virus infection.

VASODILATATION IN AN ISCHÆMIC LIMB

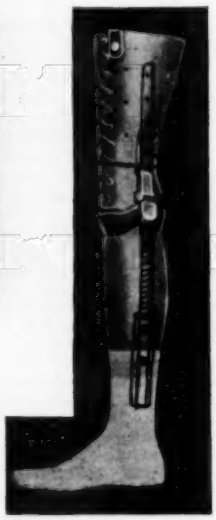
It has been long known that occlusion of the blood-supply to a limb dilates the small vessels of that limb. An increased acidity of the blood, accumulation of a histamine-like substance, and accumulation of adenylic acid compounds have successively been blamed for this action. F. T. Billings and B. G. Maegraith conclude that all three are to blame, though their effect is to induce an efficient collateral circulation (*Quart. J. exp. Physiol.* January, 1938, p. 249). Ischæmia was produced in rabbits by tying the common iliac artery of one leg above the origin of the hypogastric artery. The level of histamine in blood from the ischæmic limb was found to rise; it reached a maximum in about six hours and returned almost to normal in about twelve hours. Blood from the normal leg, meanwhile, showed only a very slight histamine increase. The muscle histamine of the ischæmic leg also rose and was still high when the blood had become normal. Blood "A-substance" (allied to adenosine), normally present in the red cells only, was raised in the ischæmic limb, and remained high for over twelve hours. In muscle the A-substance was considerably raised for about the same time. The normal limb showed no increase and injection of large amounts of adenosine led to no rise in the blood. Both tissues and red cells contain a substance that inactivates adenosine and A-substance quite rapidly. The blood *p*H became slightly more acid in the ischæmic limb, but the change in the tissue *p*H was much greater. The rate of blood-flow in the common iliac vein after tying the artery showed an initial slight rise, followed in a few minutes by a slowing which continued for some hours. Nine to twelve hours later the flow increased considerably, though still below normal. Gangrene never occurred, and on injecting the arteries three months after the occlusion a remarkably fine collateral circulation was found.

ARTIFICIAL LIMBS THAT ALLOW FOR GROWTH

Details of artificial limbs made for a Chinese girl aged 8 have been sent us by Messrs. W. R. Grossmith (12, Burleigh-street, London, W.C.). Her legs were burned by bandits and had to be amputated above the knee at the C.M.S. Hospital at Hinghwa. The difficulty of altering them in China as the child grew made it necessary that the legs should be adjustable. The sockets for the stump are of firm leather with an overlap fastened by straps, so that they can be expanded (Fig. 1). In the thigh the socket is sleeved on to the knee and can be extended as required and riveted to a lateral steel (Fig. 2). Similarly the calf is sleeved on to the ankle, with a telescopic steel which can be fixed with screws. The sleeves have leather coverings so that there is no gap when they are extended. The total lengthening possible is 4 in. One limb has an adjustable ring catch knee-joint which can be made rigid for walking or freely movable. The legs weigh 6½ lb. and the child is delighted with them.

FIG. 1

FIG. 2



BAYER 205 IN THE BLOOD STREAM

In the *Biochemical Journal* for January W. G. Dangerfield, W. E. Gaunt, and A. Wormall describe a method, based on that of Lang, for the colorimetric estimation of Bayer 205 (Germanin) in aqueous solution or in plasma. This method, they say, is accurate for even the smallest amount of the drug that has been shown to exert a definitely trypanocidal effect. They found that the plasma of rabbits which had received relatively large single doses (0·1 g. per kg.) contained a significant amount of drug (at least 1 mg. per kg.) even 5–6 months after the injections. Administered in divided doses over a few weeks, the same total produced even slightly higher ultimate values. The investigators agree with the general opinion that the high prophylactic value of Bayer 205 is largely attributable to its long retention by the body.

Dr. Frederick Price has been elected a correspondent member of the Société Française de Cardiologie.

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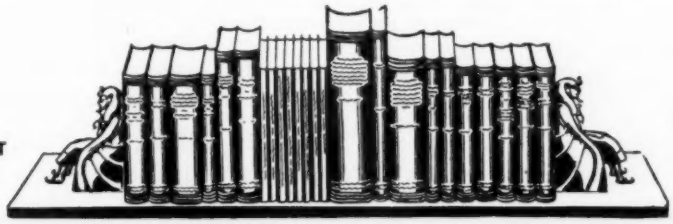

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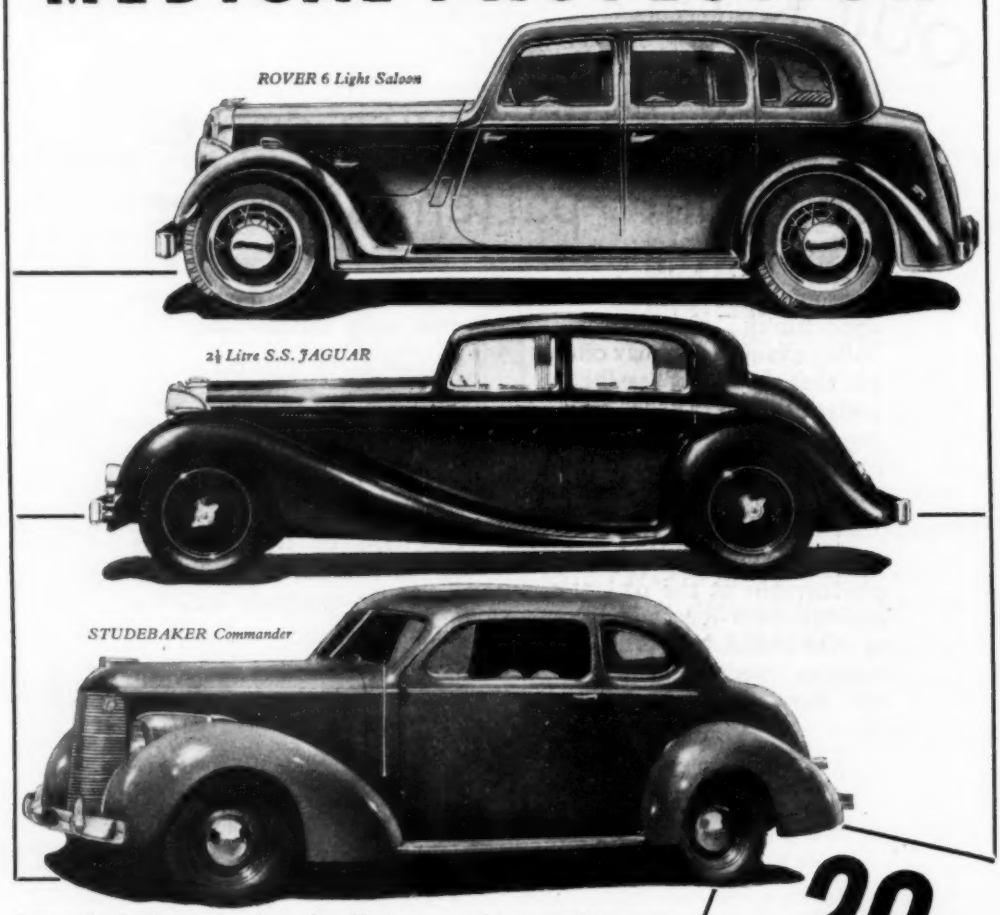

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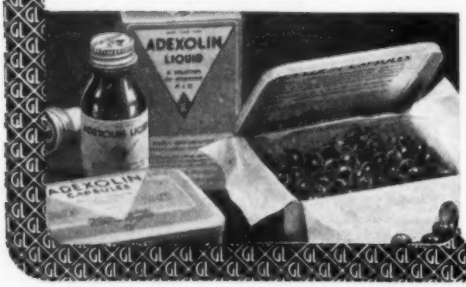

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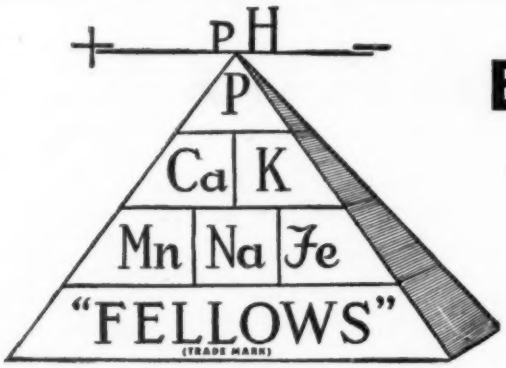

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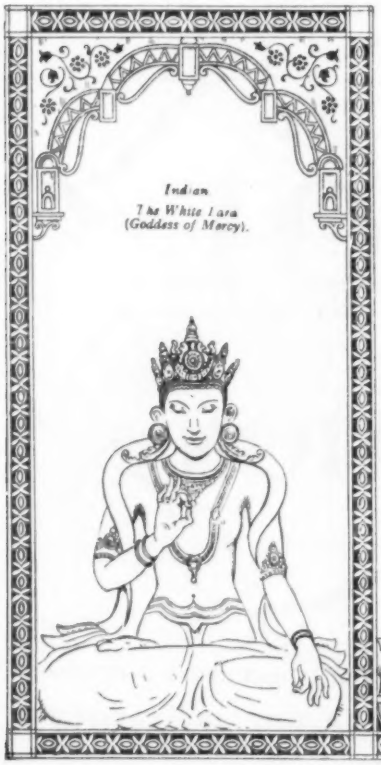

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Moisture	2.0
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Calorific value per oz. 125
Vitamin D International unit per reconstituted pt. 250

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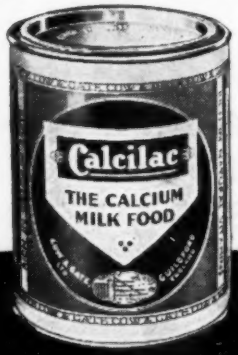

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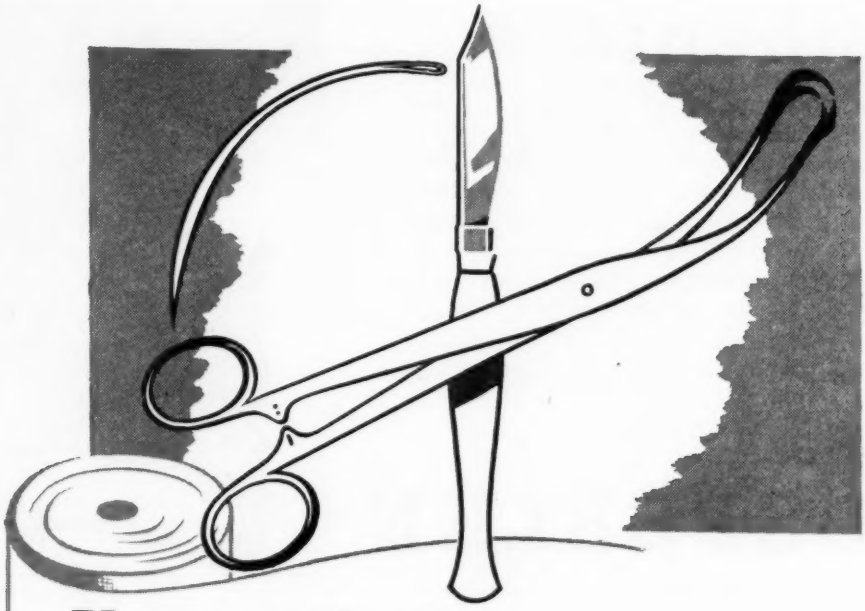

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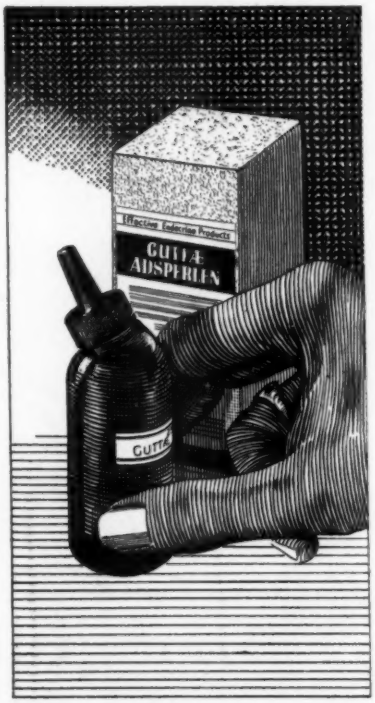

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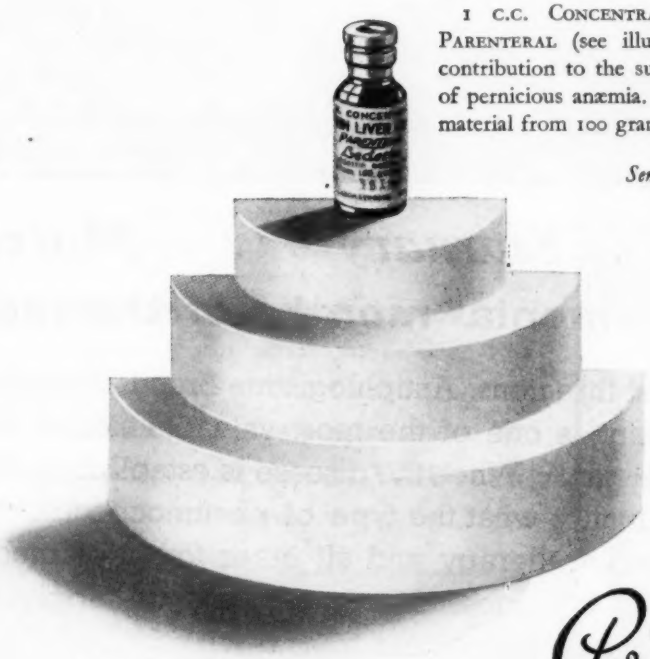

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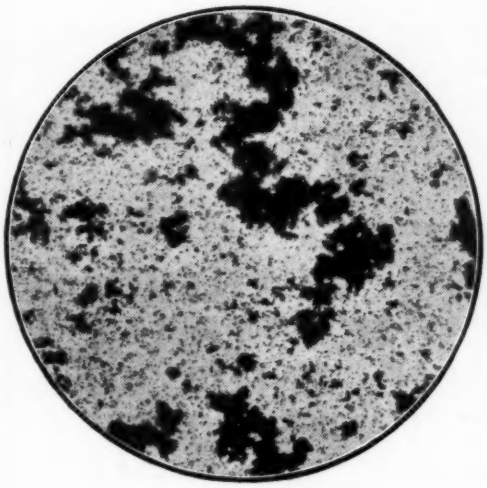

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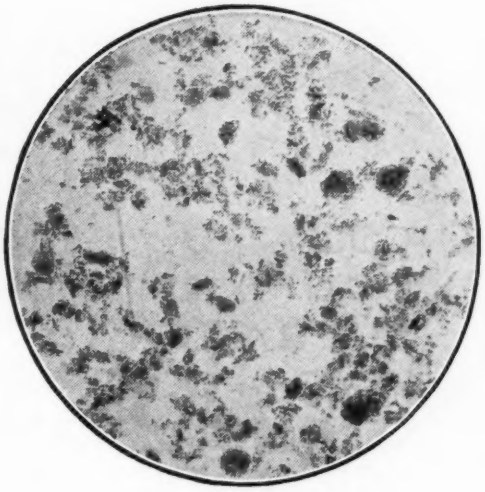

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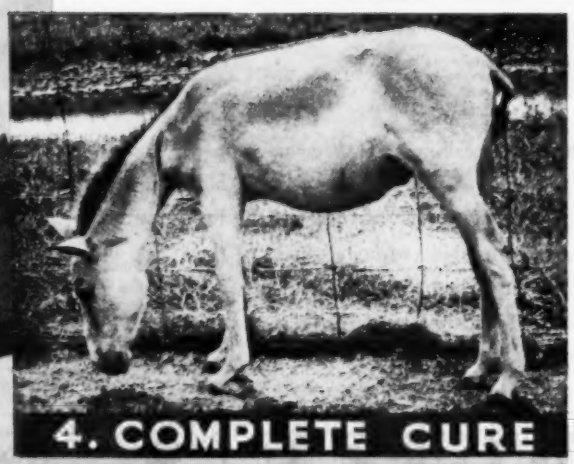

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INHIBITS AUTONOMIC HYPEREXCITABILITY

Experimental and clinical investigations by Jores and Goyert (1936).—Fortschr. Ther. 12, 159.

OCULOCARDIAC REFLEX, DERMOGRAPHISM, RESPIRATORY ARRHYTHMIA BEFORE AND AFTER BELLERGAL TREATMENT

Before Bellergal Treatment			After Bellergal Treatment		
Oculocardiac Reflex	Dermo-graphism	Respiratory Arrhythmia	Oculocardiac Reflex	Dermo-graphism	Respiratory Arrhythmia
— 6	r 15	— 2	—17	r 19	—19
+13	w 4	+17	+ 3	w 1	+ 1
++ 1	r+w 1	++ 1	++ 0	r+w 0	++ 0

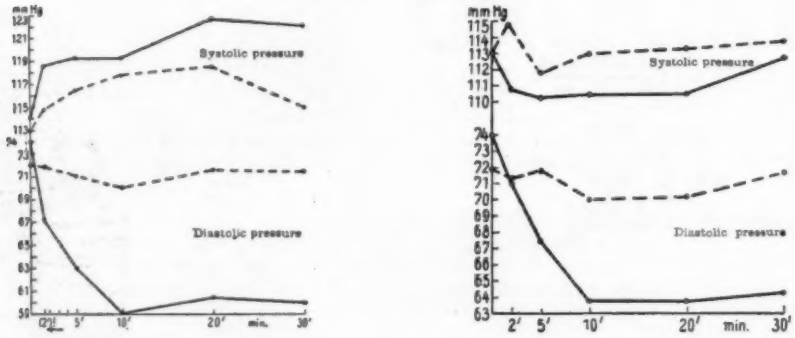
Under oculocardiac reflex, + + signifies not only slowing but also weakening of the pulse. Under dermographism, r = red, w = white, r + w = white dermographism with red margin.

"It is seen that the oculocardiac reflex was negative in only 6 cases before treatment with Bellergal but in 17 cases after treatment; white dermographism was observed in 4 cases before but only in one case after treatment; respiratory arrhythmia, present in 18 cases, disappeared except in one case."

RESPONSE OF THE BLOOD PRESSURE TO AUTONOMIC STIMULANTS BEFORE AND AFTER BELLERGAL TREATMENT

Action of Adrenaline — Action of Pilocarpine

—— Before Bellergal treatment
- - - - After Bellergal treatment



In subjects with a labile autonomic nervous system, Bellergal diminishes the exaggerated reactions, especially of the diastolic pressure, to stimulants of the autonomic nervous system such as adrenaline and pilocarpine. It also inhibits the action of adrenaline and pilocarpine on the pulse, temperature, oculocardiac reflex, dermographism and respiratory arrhythmia.

"Clinically, 40 cases exhibiting marked irritability of the autonomic nervous system were treated with Bellergal. They included a series of neurogenic disorders of various forms, nervous heart troubles without organic basis, stomach troubles of the ulcer type without an ulcer being demonstrable, ulcer and spastic constipation. By treatment commencing with 2 tablets of Bellergal three times daily, gradually decreasing to small doses, we obtained in all cases a marked improvement and even complete disappearance of the symptoms in the majority of cases. Secondary effects were never observed. The preparation may truly be described as a very effective remedy for the sedation of numerous conditions of hyperexcitability of the autonomic nervous system."

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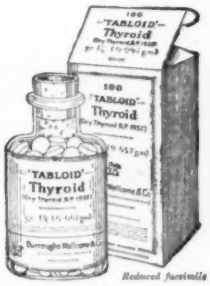

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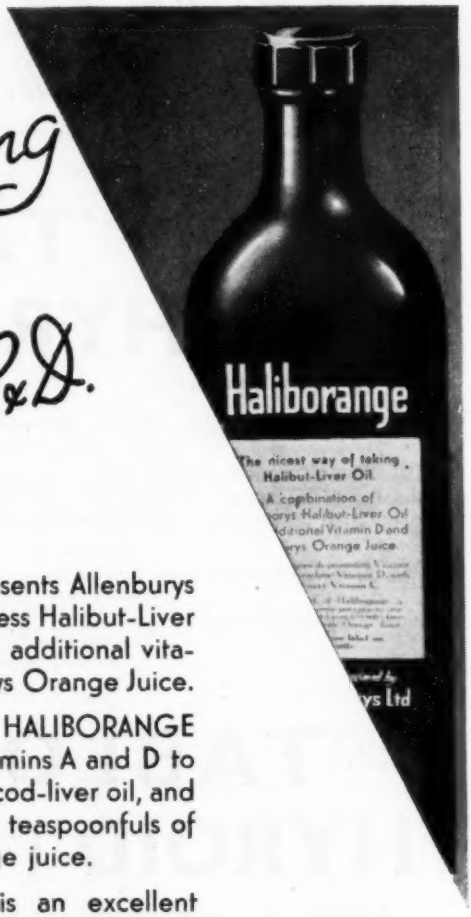

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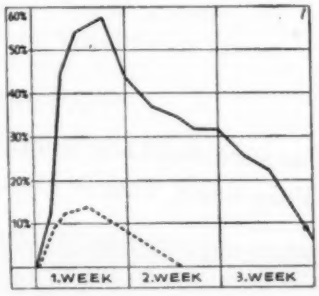

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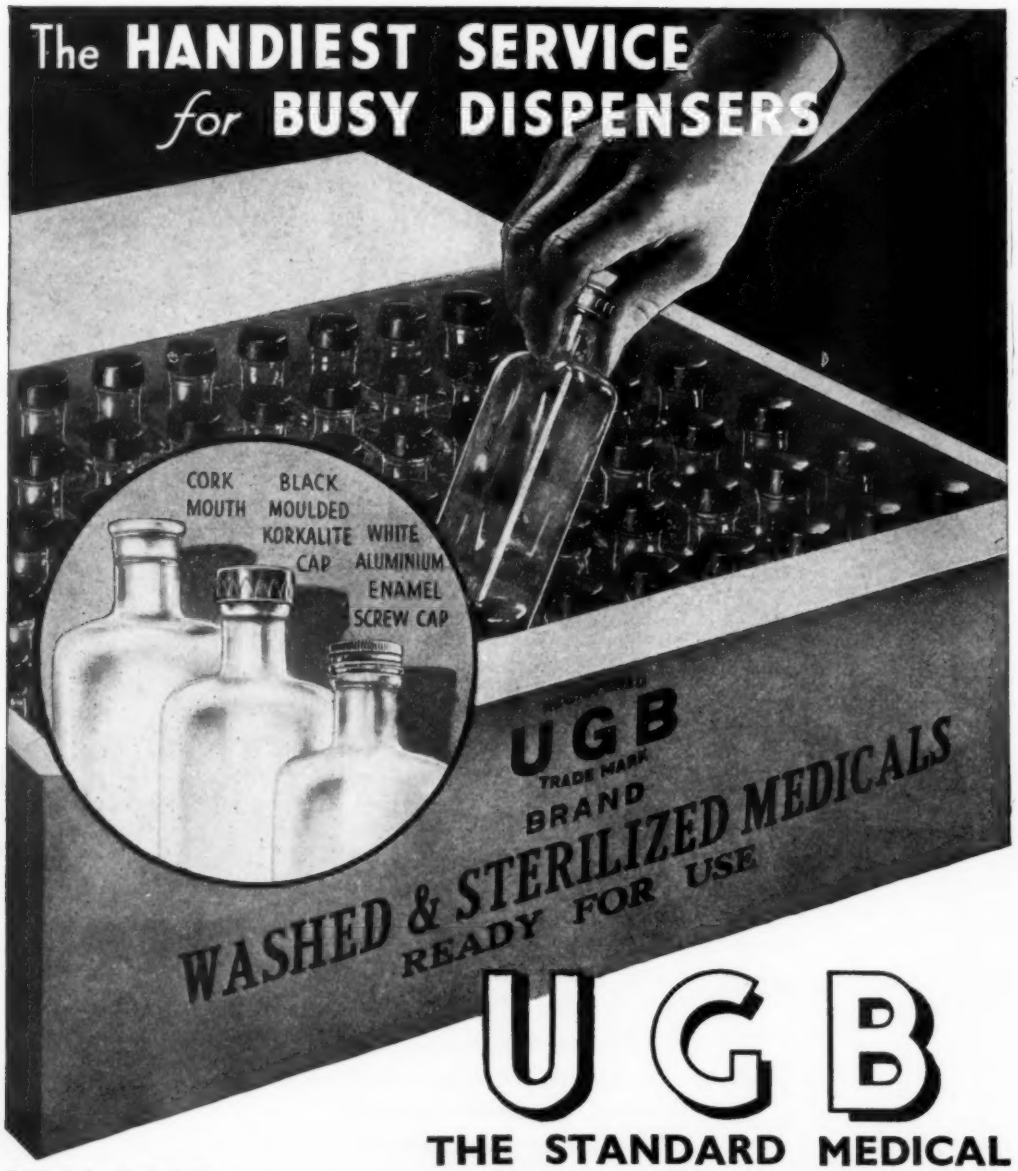

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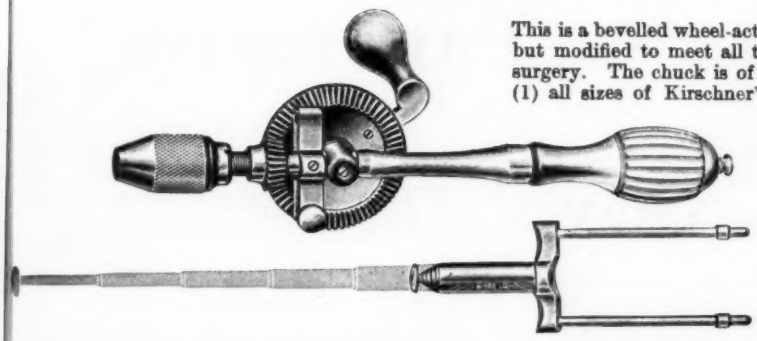

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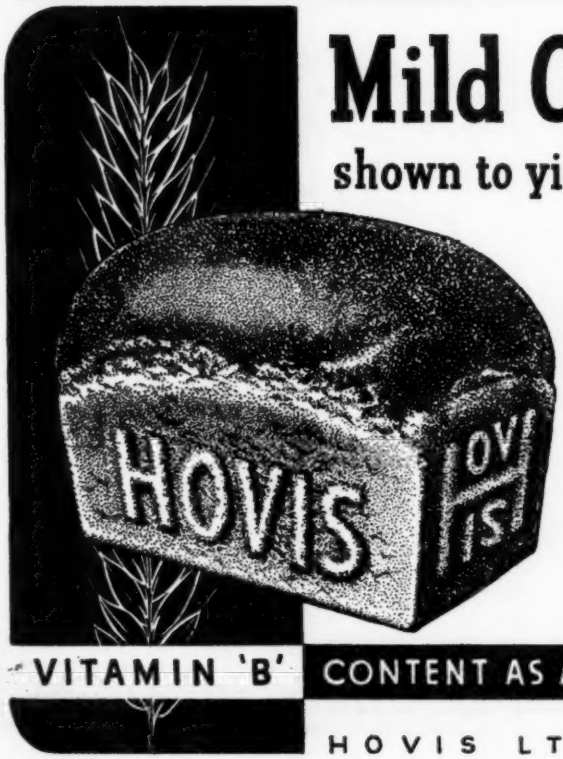

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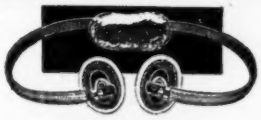

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Enquiries: The Dean or Secretary of the School.

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F.R.C.S.

A course in OPERATIVE SURGERY for the Final Fellowship Examination in February next will begin on Monday, 17th January, 1938. The fee for the course will be ten guineas.

Further particulars may be obtained from

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London Hospital Medical College, Turner-street, E.1.

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The response to the latter is only possible if the reports of the laboratory emanate from some responsible person (as attested by signature) who has had experience in clinical practice, and if brief notes of the age, sex of the patient and nature of the symptoms and signs are forwarded to him. In the Virol Pathological Research Laboratories, spaces are provided on the docket accompanying the specimens for insertion of the latter.

In this respect special attention may appropriately be drawn to the results of biochemical examination of the blood, and to the histological examination of blood films. In the former, light may be thrown on the condition of the kidneys, pancreas, liver, lungs, etc., and in the latter as a guide to treatment of the numerous varieties of anæmia or the detection of systemic infections.

In any case the medical attendant may reasonably wish to know by whom the investigation was undertaken. To meet this, in the Virol Pathological Research Laboratories reports are signed by a medically qualified pathologist thus fixing responsibility for the opinion given.

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Price list and any particulars can be obtained from:

Telephones:
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Telegraphic Address:
Virolabs, Westcent, London.

THE MEDICAL SUPERINTENDENT
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An optional course of practical work will also be arranged. These courses will be suitable for those having to use the microscope in technical practice; they will include advanced methods in microscopy, and ultra-violet microscopy.

Application for admission should be made to the Registrar of the Imperial College, Prince Consort-road, S.W.7. The fee for the Lectures is £1 1s. Students of the College and Inter-Collegiate students will be admitted free, the latter on production of the Inter-Collegiate ticket. The normal fee for the Laboratory Work is £2 2s., but a reduction is made for Inter-Collegiate and College students.

Examining Board in England

BY THE
ROYAL COLLEGE OF PHYSICIANS OF LONDON
AND THE
ROYAL COLLEGE OF SURGEONS OF ENGLAND

Notice is hereby given that the following Examination will commence on the date stated below.

DIPLOMA IN MEDICAL RADIOLOGY.
FRIDAY, JANUARY 21ST, 1938.

Candidates who have fulfilled the necessary conditions and who desire to present themselves for Examination, must give notice in writing to the Secretary, Examination Hall, 8–11, Queen-square, London, W.C.1, at least twenty-one days before the date of the Examination, transmitting at the same time such certificates as may be required by the Regulations of the Board. HORACE H. REW, Secretary.

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Medical Students and qualified Practitioners admitted to the Practice of this Hospital. Unusual opportunities are afforded of seeing Obstetrical Complications and Operative Midwifery (about one half of the total admissions being primiparous cases). Over 2700 patients are admitted to the Wards annually, and in the Ante-Natal Department there are over 20,000 attendances per annum.

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For rules, fees, &c., apply H. B. STOKES, Secretary-Superintendent.

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A YEAR'S COURSE IN PSYCHOTHERAPEUTIC THEORY AND METHOD

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Full particulars of this and other postgraduate courses may be obtained from the EDUCATIONAL SECRETARY at the Clinic.

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CLINICAL INSTRUCTION AT THE

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D.P.M. (Conjoint Board). A two months' course, approximately half-time, in Neurology suitable for Part II. of this examination will be held during October and November, 1938. The course will be chiefly in the afternoons, and will include clinical demonstrations in neurology and the psychoneuroses with special demonstrations in neuropathology; neurological ophthalmology, radiology and surgery; child guidance; the study of delinquency, etc. The course may be taken in whole or in part.

M.R.C.P. (Lond.) A fortnight's intensive course in Neurology, with facilities for examination of cases, will be held prior to each examination, 1938.

GENERAL PRACTITIONERS. Short concentrated courses in Neurology lasting for one week will be held under the auspices of the Fellowship of Medicine.

SPECIAL COURSES. These will be arranged during the year for those interested in, amongst others, the following subjects:—the psychoneuroses and psychotherapy; study and treatment of delinquency; child guidance; speech therapy; medical ophthalmology; neurological orthopædics and physiotherapy; neurological radiology.

PRACTICE OF THE HOSPITAL. Attendance upon this in the various departments for both in- and out-patients is open to practitioners at any time. Fee £2 2s. per month.

SENIOR UNDERGRADUATES. Facilities exist in the various departments of the hospital for the instruction of senior undergraduate students in neurology and related subjects. Fee £1 1s. per month.

For particulars of the above apply to the Dean, T. ROWLAND HILL, M.D., M.R.C.P., or to the House Governor, West End Hospital for Nervous Diseases, London, W.1.

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MEDICAL SCHOOL

POST-GRADUATE COURSE on DISEASES OF NERVOUS SYSTEM

will be held at the above Hospital from **JANUARY 31st to APRIL 1st.**

The Course will consist of 36 demonstrations on NEUROLOGICAL DISEASES at 3.30 P.M. on each week-day, except Wednesday and Saturday; and demonstrations on the ANATOMY AND PATHOLOGY OF THE NERVOUS SYSTEM at 12 noon. The fee for this course will be £10 10*s*. Special arrangements can be made for those who are unable to take the whole course.

Tickets entitling to attend the Out-patients' Clinic only (£2 2*s*. for three months) may be obtained from the Secretary. A limited number of Students can be enrolled as WARD CLERKS. Fees: £5 5*s*., three months; £7 7*s*., six months; £10 10*s*., Perpetual Ticket.

Applications should be addressed to the Secretary, Medical School, National Hospital, Queen-square, W.C.1.

J. G. GREENFIELD, *Dean.*

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A complete Directory of Members, or the names and addresses of members practising in any district, in this country or abroad, can be obtained from:—

The Secretary, C.S.M.M.G., Tavistock House (North), Tavistock Square, London, W.C.1.

Telephone: EUSTON 1676-8.

THE HOSPITAL FOR SICK CHILDREN,

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THE HOSPITAL CONTAINS 257 beds, with an average admission of over 7,000 in-patients per annum, whilst in the out-patient department about 30,000 new patients are seen each year.

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POST-GRADUATE INSTRUCTION, open to all qualified medical men and women, is given daily at both morning and afternoon sessions. Morning sessions, 10 to 12 noon, include Medical and Surgical Out-patient Clinics; Ear, Nose and Throat Clinic, Wednesdays, 12 to 1 p.m. Afternoon sessions include ward visits and surgical operations; Eye Clinic, once a week; Skin and Dental Clinics once a week. Morbid Anatomy Demonstration, Wednesday, 11 to 12 noon. Instruction is also given in the Venereal Diseases Department, and in the use of Anæsthetics in dental and tonsillectomy operations.

There are three terms yearly, each of approximately 13 weeks, during which lectures (particulars of which are published in advance in the medical press) are given on Thursday afternoons:—Clinical, 2 to 3 p.m., and Clinico-pathological or Biochemical, 3 to 4 p.m.

Fees: One week, 1½ *guineas; two weeks,* £3 3*s*.; *one month,* £5 5*s*.; *two months,* 7½ *guineas; three months, or whole term,* £10 10*s*. Clinical Clerkships in the wards are available for 4th and 5th year Undergraduates. Specia Clinical Assistantships for Post-graduate Students for periods of 3 months and upwards can be arranged.

SPECIAL COURSES IN PRACTICAL PATHOLOGY, consisting of six demonstrations, are also given at the Hospital. These courses demonstrate such methods as can be usefully carried out away from a laboratory and are of general application. (Fee for each course, £3 3s.)

FULLER DETAILS may be obtained from the Secretary at the Hospital.

H. F. RUTHERFORD, Secretary. W. G. WYLLIE, Dean.

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FOUNDED 1912—INCORPORATED 1915

PATRON: HIS GRACE THE DUKE OF PORTLAND, K.G., P.C., G.C.V.O.

The Society is the oldest examining body in Great Britain, its diploma being widely recognised by the Medical Profession as evidence of scientific knowledge and thorough practical training, the designatory letters being **M.I.S.Ch.**

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Edinburgh School of Chiropody,
81 Newington Road, Edinburgh.
Glasgow and West of Scotland College of Chiropody,
22 Windsor Terrace, Glasgow.
London Foot Hospital School of Chiropody,
33 Fitzroy Square, London, W.1.
Manchester School of Chiropody,
Oxford Place, Victoria Park, Manchester.

These Schools are attached to Foot Clinics where Students are afforded opportunities of seeing and treating those varied types of foot trouble which come within the province of the Chiropodist.

The examinations in Anatomy, Physiology, Medicine and Surgery are conducted by members of the Medical Profession from a panel approved by the Royal College of Physicians and the Royal College of Surgeons of England respectively.

Further particulars may be obtained from the Secretary, L. W. GRIFFITHS, F.L.A.A., A.C.I.S.

ROYAL WESTMINSTER OPHTHALMIC HOSPITAL MEDICAL SCHOOL

(Founded 1816)

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The R.W.O.H. is the second largest Ophthalmic Hospital in London, containing 100 Beds, and is recognised by the University of London for Studies in Ophthalmology, both for the qualifying examination and for the degree of M.S. It is also recognised by the Conjoint Board and other Bodies granting degrees and diplomas in OPHTHALMOLOGY. Next Course for D.O.M.S. Parts 1 and 2 will commence March 14th, 1938.

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The British Postgraduate Medical School has been established to provide for the further and more advanced tuition in Medicine to qualified medical men and women. It is entirely reserved for those holding University Degrees or Registrable Qualifications. Students can be admitted at any time and for any period to the ordinary teaching and hospital practice of the School in Medicine, Surgery, Obstetrics and Gynæcology, Radiology and Anæsthetics. The clinical work is provided in the Hammersmith General Hospital (462 beds) which adjoins the School.

Arrangements can be made for Research and advanced work in Pathology, Bacteriology, Morbid Histology and Bio-Chemistry.

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" " " 6 "	Twenty-one guineas
Refresher Course	Five guineas

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Postgraduate students who require information or advice as to courses of study and postgraduate facilities in England should apply to the Dean. Information is also available regarding postgraduate facilities in America and on the Continent.

For the convenience of postgraduate students who are strangers to London and students who require advice as to postgraduate facilities and courses of study, a sub-office has been opened at The London School of Hygiene and Tropical Medicine, Keppel Street, W.C.1. (Mus. 0943.)

NATIONAL HEALTH INSURANCE COURSES.—Enquiries and correspondence regarding these courses should be addressed to The Sub-Dean, British Postgraduate Medical School, London School of Hygiene and Tropical Medicine, Keppel Street, W.C.1. (Mus. 0943.)

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Westmoreland Street, W.1.

The Clinical Practice of the Hospital in the Out-patient Department and the Wards is open to Post-Graduates. Fees: One month **£2 2s.**; three months **£5 5s.**

Fourth year Students are admitted to the practice of the Hospital at specially reduced fees.

Special Courses of two weeks' duration are held in January and October. Fee **£7 7s.**

A course of lectures on Tuesdays at 5.30 p.m. will be given during February, March and April. Admission free.

Further particulars may be obtained on application to the Dean or the Secretary at the Hospital.

BRITISH COLLEGE OF OBSTETRICIANS AND GYNÆCOLOGISTS

58, Queen Anne Street, LONDON, W.1

EXAMINATIONS FOR THE MEMBERSHIP ARE HELD IN JANUARY AND JULY.—Application to sit for the examinations must be made at least two months in advance as the Clinical record of the candidate must be investigated by the Examination Committee and, if approved, the case records submitted one month prior to the Examination.

EXAMINATIONS FOR THE DIPLOMA ARE HELD IN MARCH AND OCTOBER.—Application must be made at least one month prior to the date of the Examination.

In the case of candidates from overseas, applications should be made still earlier.

Copies of the Regulations for the Membership and the Diploma can be obtained from the Honorary Secretary, at the above address.

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FACULTY OF MEDICINE

Complete Courses are provided for Degrees in Medicine, Surgery, Orthopædic Surgery, Dental Surgery and Veterinary Science, and for Diplomas in Dental Surgery, Public Health, Tropical Medicine, Tropical Hygiene, Veterinary Hygiene, and Medical Radiology and Electrology.

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Clinical instruction is given at (*a*) four General Hospitals, viz., The Royal Infirmary, The Royal Southern Hospital, The David Lewis Northern Hospital, and the Stanley Hospital; (*b*) five Special Hospitals, viz., The Eye, Ear and Throat Infirmary, The Women's Hospital, The Royal Liverpool Children's Hospital, The Liverpool Maternity Hospital, and St. Paul's Eye Hospital; (*c*) certain Municipal Hospitals, and the County Mental Hospital, Rainhill.

Prospectuses containing full information may be obtained on application to Professor W. H. WOOD, Dean of the Faculty of Medicine, The University of Liverpool.

ROTUNDA HOSPITAL, DUBLIN.

The Hospital contains 135 beds. Upwards of 3,000 maternity cases and nearly 1,000 gynæcological patients are treated during the year. Besides the Hospital there is an extern Maternity Department with 2,000 cases. The routine for students consists of attendance at the Morning Lectures on Midwifery and Gynæcology, examination of patients in the Gynæcological Departments, attendance at operations and all abnormal labour in the Hospital Wards, and conduction of labour cases in the intern and extern departments. A large new Antenatal Clinic and Dispensary has just been added which give increased facilities to students. An Infants' Department is available also. The Pathological Laboratory has been considerably enlarged, and offers convenient facilities for practical work to Post-graduates and Students. A Biochemist is on the Staff of the Hospital who is carrying out the ZONDEK-ASCHHEIM test for pregnancy and is prepared to help any Post-graduates who are keen on doing research work on the material in the Hospital. There is a fully equipped X-ray installation under the care of a competent radiologist.

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Full particulars from ANDREW H. DAVIDSON, M.D., Master, Rotunda Hospital.

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HEIGHAM HALL, NORWICH

A PRIVATE MENTAL HOME situated in 14 acres of well-wooded grounds. For Ladies and Gentlemen suffering from Nervous or Mental Illness. Voluntary Patients, Temporary Patients, and Patients under Certificates are admitted for Treatment. Fees: from 4 guineas a week upwards, according to requirements. A few vacancies exist for Ladies and Gentlemen at reduced fees on the recommendation of the Patient's own Physician.

Apply to Dr. J. A. SMALL.
Telephone: 80 Norwich. Telegrams: Small, 80 Norwich.

CHISWICK HOUSE,

PINNER, MIDDLESEX.
Telephone: PINNER 234.

A Private Hospital for the Treatment and Care of Mental and Nervous Illnesses in both Sexes.

A modern country house, 12 miles from Marble Arch, in attractive and secluded surroundings. Fees from 10 guineas per week inclusive. Cases under Certificate, Voluntary and Temporary Patients received for treatment.

DOUGLAS MACAULAY, M.D., D.P.M.

BROOKE HOUSE, CLAPTON

A PRIVATE HOME for the treatment of Nervous and Mental Disorders in both sexes. Situated in nine acres of Pleasure Grounds.

Voluntary, Temporary, and Certified Patients received.

For further particulars apply—
Dr. ERNEST ROLLINS, Resident Physician.
Tel.: Clissold 1648.

SPRINGFIELD HOUSE

'Phone: BEDFORD 3417. **Near BEDFORD**

For Mental Cases with or without Certificates.

Ordinary Terms: Five Guineas per week (including Separate Bedrooms for all suitable cases without extra charge)

For forms of admission, &c., apply to the Resident Physician, CEDRIC W. BOWER.

INTERVIEWS IN LONDON BY APPOINTMENT.

Telegraphic Address: "Relief, Old Catton." Telephone: 290 Norwich.

NERVOUS & MENTAL AFFECTIONS

Ladies only received

The Grove, Old Catton, Norwich.

A High-class Home for the Curative Treatment of Nervous Affections. Voluntary Boarders are also received without certificates.

For full particulars apply to the Misses MCLINTOCK or to Dr. S. BARTON, 34, Surrey-street, Norwich, Visiting Physician.

HILL END HOSPITAL AND CLINIC

FOR THE PREVENTION AND TREATMENT OF MENTAL AND NERVOUS DISORDERS

(20 miles from London)

Ladies suffering from all forms of MENTAL ILLNESS are received for treatment, on modern lines, as Voluntary, Temporary or Certified Private Patients at the Hill End Hospital. Convalescent or mild cases can be treated in a delightful country mansion, with extensive grounds, known as

HIGHFIELD HALL,

situate about a mile away from the Hospital.

FEES TWO TO THREE GUINEAS PER WEEK.

For further particulars apply to the Medical Superintendent, W. J. T. KIMBER, L.R.C.P., D.P.M.

ST. ALBANS. HERTS

CITY OF LONDON MENTAL HOSPITAL

Near DARTFORD, KENT.

Ladies and Gentlemen received for treatment under certificates, and without certificates as either VOLUNTARY or TEMPORARY PATIENTS, at a weekly fee of TWO GUINEAS, and upwards.

RUSSELLS

HEMEL HEMPSTEAD ROAD, WATFORD

Telephone: WATFORD 5917

This new convalescent home has just been opened for the care and treatment of mild and recoverable mental and nervous conditions in both sexes.

The house is situated high up, in 40 acres of beautiful grounds, 17 miles from London. One Lady Doctor is in residence, and another specialist in psychological medicine is in daily attendance. Fees from ten guineas a week, inclusive.

Apply: RESIDENT MEDICAL OFFICER.

THE WARNEFORD, OXFORD.

HOSPITAL FOR MENTAL DISORDERS.

President: The Right Hon. the LORD SAYE AND SELE.

This Registered Hospital for the Treatment and Care, at moderate charges, of Mental Patients belonging to the educated classes, stands in a healthy and pleasant situation on Headington Hill, near Oxford. Voluntary and Temporary Patients are also received for treatment. The adjacent estate of HIGHFIELD PARK has recently been acquired and the house, which has been modernised and equipped with every comfort, is now available for mild and convalescent patients. Private suites can be arranged.

For further particulars apply to the Physician-Superintendent.

LITTLETON HALL, BRENTWOOD, ESSEX

(18 MILES FROM LONDON.)
400 feet above sea.
HOME for few LADIES Mentally Afflicted. Large grounds. Liverpool st. 26min. Stations Brentwood, Shenfield, one mile. Boarders received. Apply Dr. Haynes Telephone and Telegrams: Haynes Brentwood 45.

ASHWOOD HOUSE

KINGSWINFORD, STAFFORDSHIRE

An old-established home-like Institution for the treatment of MENTAL AFFECTIONS in BOTH SEXES. Probationary cases and non-certified patients are received as well as those regularly certified.

Full particulars as to reception terms, &c., may be obtained from the Resident Medical Officer.

THE COPPICE, NOTTINGHAM.

HOSPITAL FOR MENTAL DISEASES.

President: The Right Hon. LORD BELPER.

This Institution is exclusively for the reception of a limited number of PRIVATE PATIENTS of both sexes, of the UPPER and MIDDLE CLASSES, at moderate rates of payment. It is beautifully situated in its own grounds, on an eminence a short distance from Nottingham, and commands an extensive view of the surrounding country; and from its singularly healthy position and comfortable arrangements affords every facility for the relief and cure of those mentally afflicted. Voluntary and Temporary Patients received. Occupational Therapy. For terms, &c., apply to the Medical Superintendent.

Telephone: 64117 Nottingham.

CLARENCE LODGE

CLAPHAM PARK, LONDON

Situated in 3½ acres of secluded gardens.

HOME FOR TWELVE MENTAL PATIENTS (LADIES).

Well-appointed private house. Home comforts and Trained Nursing Staff. Eminent Mental Specialist. Visiting Physician.

Station: Clapham Common Tube.

Phone: Tulse Hill 4913

Apply MISS THWAITES.

St. Bartholomew's Hospital.

WHOLE-TIME CHIEF ASSISTANT in the X-Ray Diagnostic Department.

Applications are invited for the post of Whole-time Chief Assistant in the X Ray Diagnostic Department of the above Hospital.

The salary will be at the rate of from £400 to £500 per annum, and appointment will be made as from the 1st February, 1938.

Candidates, who must possess a Diploma in Medical Radiology, should send in their applications to the undersigned not later than Saturday, 15th January, 1938.

C. C. CARUS-WILSON, Acting Clerk to the Governors.

11th December, 1937.

King Edward Memorial Hospital,

EALING.
(145 Beds.)

CASUALTY OFFICER AND DEPUTY RESIDENT MEDICAL OFFICER (Male) required for 1st February, 1938. Six months' appointment with possibility of re-election for a further period. Salary £225 per annum with usual residential emoluments.

Applications, stating age, experience, and qualifications, together with copies of two recent testimonials, should be sent to the undersigned by the 6th January, 1938.

R. A. MICKELWRIGHT, House Governor.

GOVERNMENT OF INDIA

Applications are invited from women candidates for the appointment of PROFESSOR OF MATERNITY AND CHILD WELFARE at the ALL-INDIA INSTITUTE OF HYGIENE AND PUBLIC HEALTH, CALCUTTA.

2. Candidates must possess a registrable medical qualification and must have experience of the executive and administrative aspects of Maternity and Child Welfare. Preference will be given to candidates possessing also experience in directing or conducting research and in lecturing to students.

3. Agreement for five years in the first instance. Pay according to age and qualifications in scale Rs. 450, rising by triennial increments of Rs. 50 to Rs. 850 a calendar month, plus Overseas Pay of Rs. 100 when salary is rupees 600 or less or Rs. 150 when salary is Rs. 650 or more. (Rupee = 1s. 6d. approximately.) House allowance. Provident Fund first class passage to India and return passage on satisfactory termination of service (Overseas Pay and return passage admissible only to appointee of non-Asiatic domicile).

4. Further particulars and forms of application may be obtained, on application by postcard, from the High Commissioner for India, General Department, India House, Aldwych, London, W.C.2. Last date for receipt of completed applications 17th January, 1938.

The Royal Cancer Hospital (Free)

(Incorporated under Royal Charter),
Fulham-road, London, S.W.3.

Applications are invited for the post of RESIDENT MEDICAL OFFICER to commence duties on the 1st February, 1938.

The appointment is for twelve months at a salary of £200 per annum, together with board, residence, and laundry. At the end of this period re-appointment for a further twelve months may be applied for.

Applications, to be made on a form which will be supplied by the Secretary, with copies of not more than three recent testimonials, to be sent to the Secretary not later than the first post on the 13th January, 1938. CLEMENT COBBOLD, Secretary.

King George Hospital, Ilford

(Near London).
(207 Beds.)

CASUALTY OFFICER AND SURGICAL REGISTRAR (Male) required immediately for twelve months. Salary £150 per annum.

Forms of application may be obtained from the undersigned, to whom they should be returned, duly completed, as soon as possible.

G. AUSTIN HEPWORTH, Secretary and Superintendent.

University of London.—The Senate

invite applications for the UNIVERSITY READERSHIP IN MEDICAL PARASITOLOGY tenable at the LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE. It is desirable that candidates should be competent in Medical Protozoology and should have had experience overseas. Salary £900 a year.

Applications (twelve copies) must be received not later than first post on 18th February, 1938, by the Academic Registrar, University of London, W.C.1, from whom further particulars should be obtained.

Elizabeth Garrett Anderson Hospital,

Euston-road, N.W.1.

Applications are invited from qualified Medical Women for the honorary appointments of FIRST ASSISTANT and CLINICAL ASSISTANT, Ophthalmic Clinic.

Particulars of the posts may be obtained from the undersigned, to whom applications, enclosing copies of three testimonials, should be addressed not later than 6th January, 1938.

20th December, 1937. JEAN R. MURRAY, Secretary.

Hospital for Consumption and Diseases

OF THE CHEST, Brompton, S.W.3.

The Committee of Management invite applications for the following posts:—

HOUSE PHYSICIAN, for which there are three vacancies. The duties include work in the Out-patient Department as well as in the Wards. The appointment is for six months, commencing February 1st, 1938, with an honorarium of £50.

HOUSE PHYSICIAN (Male) at the SANATORIUM at FRIMLEY. The appointment is for six months, commencing February 1st, 1938, with an honorarium of £50.

Applications, with copies of testimonials, must reach the undersigned not later than Saturday, January 8th, 1938.

Brompton, December, 1937. F. G. ROUVRAY, Secretary.

Royal Free Hospital,

Gray's Inn-road, London, W.C.1.

Applications are invited from duly qualified and registered Medical Men or Women for the half-time post of REGISTRAR in the Ear, Nose, and Throat Department. Preference will be given to candidates with the Fellowship of England, Edinburgh, or the D.L.O. qualification.

Intending candidates should submit applications stating age, and accompanied by copies of three recent testimonials, to the undersigned (from whom all information may be obtained) on or before the 8th January, 1938. Period of appointment 1st February, 1938–31st December, 1938.

RICHARD T. BARTLEY, Secretary.

ROYAL NAVAL MEDICAL SERVICE

Vacancies exist for MEDICAL OFFICERS in the Royal Navy, and applications are invited for entry in April, 1938.

Candidates below the age of 28 years are preferred and they must be registered under the Medical Acts. No examination in professional subjects will be held but candidates will be required to attend for interview by a Selection Board.

Selected candidates will be entered for Service for a period of three years in the first instance, which may be extended to five years at the discretion of the Admiralty.

At the end of three years' service officers may retire with a gratuity of £400, but those who serve for five years will receive £1,000.

At the end of five years' Short Service permanent commissions will be given to selected officers who wish to make the Naval Medical Service their permanent career. Officers transferred to the permanent list will receive a gratuity of £1,000 (less Income Tax).

Opportunities are available for officers on the permanent list to specialise, and ample provision is made for Post-graduate study.

Copies of the regulations for entry and conditions of Service, including rates of pay and allowances, may be obtained from the Medical Director-General of the Navy, Admiralty, S.W.1, and from the Deans of all Medical Schools.

Applications for entry from intending candidates must be received not later than 28th February, 1938.

Hospital for Tropical Diseases,

Gordon-street, W.C.1. (Seamen's Hospital Society).—HOUSE PHYSICIAN (Male) required for six months from 1st February, 1938. Salary £120 per annum, with board, residence, and laundry.

Applications, with copies of three testimonials, to be sent in on or before 8th January, 1938, to the undersigned.

F. A. LYON, Secretary.

Seamen's Hospital, Greenwich, S.E.10.
11th December, 1937.

West Ham Mental Hospital,

GOODMAYES, ILFORD, ESSEX.

Applications are invited for two Male JUNIOR ASSISTANT MEDICAL OFFICERS at the above Hospital. Candidates must be unmarried.

The commencing salary in both cases is at the rate of £350 per annum, rising by annual increments of £25 to a maximum of £450 per annum, together with emoluments consisting of board, laundry, and attendance, valued for superannuation purposes at £150 per annum. The persons appointed will also be paid, in addition to their salary, the sum of £50 per annum on obtaining the Diploma of Psychological Medicine.

The appointments are subject to six months' probation and to the provisions of the Asylums Officers' Superannuation Act, 1909, Class 1, and to a satisfactory medical examination.

A knowledge of bacteriological work will be an advantage.

Applications, stating age and experience, accompanied by copies of three testimonials, must reach the Medical Superintendent not later than 3rd January, 1938.

Hospital of St. John and St. Elizabeth,

60, Grove End-road, N.W.8.

Applications are invited for the post of RESIDENT HOUSE PHYSICIAN (Male). The post is recognised for the degree of M.D. London University. The appointment will be for six months from February 1st, 1938. Salary at the rate of £100 per annum, with full board.

Applications, together with copies of three testimonials, should reach the undersigned by 3rd January, 1938. Applicants will be required to attend a meeting of the Medical Committee at 8.30 P.M. on January 4th at the Hospital.

F. DUDLEY HOBBS, B.A., Secretary.

University of London.—The Senate

invite applications for the UNIVERSITY CHAIR OF SURGERY tenable at UNIVERSITY COLLEGE HOSPITAL MEDICAL SCHOOL. Salary £2000 a year. Applications (twelve copies) must be received not later than first post on 20th January, 1938, by the Academic Registrar, University of London, W.C.1, from whom further particulars should be obtained.

West London Hospital,

Hammersmith, W.6. (239 Beds.)

Applications are invited for the post of HONORARY OPHTHALMIC SURGEON for which the present Honorary Assistant Ophthalmic Surgeon is a candidate. In the event of his election there will be a vacancy for an HONORARY ASSISTANT OPHTHALMIC SURGEON for which post applications are also invited.

Candidates must be Fellows of one of the Royal Colleges of Surgeons of England, Edinburgh or Ireland. The successful candidate will be required, in addition to his other duties, to undertake such teaching for the Post-Graduate College as the Board may approve.

Applications, with copies only of testimonials, must reach me not later than Thursday, 20th January. Candidates must attend a Meeting of the Medical Council at 4.30 P.M. on Friday, 21st January, and prior to that date call upon, and send copies of application and testimonials to each member thereof. They must not canvass Members of the Board, but nevertheless must send copies of their application and testimonials to each member thereof and, if so notified, be in attendance at a Meeting of the Board of Management at 5 P.M. on Tuesday, 25th January, when the election will be made. H. A. MADGE, Secretary.

Victoria Hospital for Children,

Tite-street, Chelsea, S.W.3.

Applications are invited for the post of OPHTHALMIC SURGEON. Candidates must be Fellows of the Royal College of Surgeons of England and are expected to call on Members of the Medical Staff.

Applications, with copies of testimonials, are to be sent to the Secretary at the Hospital on or before Saturday, the 15th January, 1938.

D. ST. JOHN BAMFORD, Secretary.

Victoria Hospital for Children,

Tite-street, Chelsea, S.W.3.
(138 Beds.)

The Committee of Management invite applications for the posts of

(a) HOUSE PHYSICIAN,
(b) HOUSE SURGEON,

both vacant 1st February, 1938. The appointments are for six months. Salaries at the rate of £100 per annum, with board, lodging, and washing.

(c) OUT-PATIENT ANÆSTHETIST.

To attend on three half-days a week. A payment of 10*s.* 6*d.* per attendance will be made.

Applications, with copies of three recent testimonials, should be sent to the Secretary not later than first post on Tuesday, 11th January, 1938.

D. ST. JOHN BAMFORD, Secretary.

Croydon General Hospital.

A vacancy occurs on the Honorary Staff of the above Hospital for an ASSISTANT PHYSICIAN and candidates for the appointment are requested to forward their applications, stating age, qualifications, and experience, together with copies of three testimonials, to the undersigned not later than 22nd January, 1938.

GEORGE H. DAMS, House Governor and Secretary.

The Infants Hospital,

Vincent-square, Westminster.

The Committee of Management invite applications for the post of RESIDENT MEDICAL OFFICER.

Candidates must have held previous resident Hospital appointments for not less than six months, and must have had Pædiatric experience. The appointment is for one year from March 1st, with eligibility for re-appointment. Salary £300 per annum, with board, lodging, and laundry.

Candidates are expected to call upon, and send a copy of application and testimonials to, each member of the Honorary Medical and Surgical Staff.

Applications, with copies of testimonials, should be sent not later than January 29th to the undersigned, from whom copies of the rules may be obtained.

ALFRED J. SMALL, Secretary.

London Hospital, E.1.—Applications

are invited for the post of SURGICAL FIRST ASSISTANT AND REGISTRAR. Candidates must be Fellows of the Royal College of Surgeons. The appointment is for one year, but is renewable annually on application for two further periods of one year. Salary £300 per annum, payable by the Hospital and Medical College jointly.

Applications should arrive at the Hospital not later than by the first post on Saturday, February 12th.

ARTHUR G. ELLIOTT, House Governor.

The National Temperance Hospital,

Hampstead-road, London, N.W.1.

Applications are invited for the post of MEDICAL REGISTRAR, which will become vacant on 1st February, 1938. Candidates must be Graduates in Medicine of a university of the United Kingdom, or a Member of the Royal College of Physicians of London. Honorarium 40 guineas.

Applications, accompanied by not more than three testimonials, to be addressed to the Secretary by January 19th.

The National Temperance Hospital,

Hampstead-road, London, N.W.1.

Applications are invited for the post of HONORARY ANÆSTHETIST. The successful candidate will be required to attend on Thursday mornings and in cases of emergency. Thirty copies of application, giving full particulars, together with copies of not more than three recent testimonials, should be sent to the Secretary by January 19th.

Candidates will be required to call upon members of the Honorary Staff.

East Ham Memorial Hospital,

Shrewsbury-road, E.7. (100 Beds.)

Applications are invited for the post of RESIDENT MEDICAL OFFICER (Male). Duties to commence on 1st February, 1938. The appointment will be for six months in the first instance, but the successful candidate will be eligible for reappointment. Salary at the rate of £200 per annum, with board, residence, and laundry. Preference will be given to candidates who hold the Diploma of F.R.C.S.

Applications, stating age, nationality, experience, and full particulars, together with copies of three testimonials, should reach the undersigned by 13th January.

REGINALD PERRY, Secretary.

ROYAL NAVAL DENTAL SERVICE

Vacancies exist for DENTAL OFFICERS in the Royal Navy, and applications for entry are invited from registered Dental Surgeons.

Candidates must be British subjects of pure European descent, below twenty-eight years of age on the day of entry, and physically fit for service in any part of the world. Unmarried candidates are preferred. Candidates will be required to attend at the Admiralty for physical examination and interview by a Selection Board.

Copies of the regulations for entry and conditions of service, including rates of pay and allowances, may be obtained from the Medical Director-General of the Navy, Admiralty, S.W.1, and from the Deans of Dental Schools.

Royal Air Force—Dental Branch.

TEMPORARY CIVILIAN APPOINTMENTS.

Vacancies exist at certain Royal Air Force Stations for temporary appointments as Whole-time CIVILIAN DENTAL SURGEONS. Preference will be given to applicants under thirty years of age.

Further information may be obtained by applying to the Secretary, Air Ministry (D.M.S.), Adastral House, Kingsway, W.C.2.

Examining Board in England

BY THE
ROYAL COLLEGE OF PHYSICIANS OF LONDON
AND THE
ROYAL COLLEGE OF SURGEONS OF ENGLAND.

Notice is hereby given that the following Examination will commence on the date stated below :—

DIPLOMA IN OPHTHALMIC MEDICINE AND SURGERY.

FRIDAY, FEBRUARY 4TH.

Candidates who have fulfilled the necessary conditions and who desire to present themselves for Examination, must give notice in writing, to the Secretary, Examination Hall, 8–11, Queen-square, London, W.C.1, at least twenty-one days before the date of the Examination, transmitting at the same time such certificates as may be required by the Regulations of the Board.

HORACE H. REW, Secretary.

Royal College of Surgeons in England.

DIPLOMA OF FELLOW.

Notice is hereby given that the next Final Examination for the Diploma of Fellow will commence on Thursday, February 3rd.

Candidates who have fulfilled the necessary conditions, and who desire to present themselves for examination, must give notice in writing to the Director of Examinations, Examination Hall, 8–11, Queen-square, London, W.C.1, at least twenty-one days before the date of the examination, transmitting at the same time such certificates as may be required by the Regulations of the Board.

HORACE H. REW, Director of Examinations.

West End Hospital for Nervous

DISEASES.

In-patient Department, Gloucester-gate, Regent's Park, N.W.1.
Out-patient Department, 73, Welbeck-street, W.1.

The Committee of Management invites applications for the following vacancies :—

REGISTRAR, Out-patient Department. British Male candidates. Remuneration £200 per annum. Duties include afternoon attendance at the Out-patient Department five days a week. Candidates must have neurological experience.

Two RESIDENT HOUSE PHYSICIANS (Male). Duties to commence March 1st, 1938. Salary at the rate of £125 per annum, with board, residence, and laundry. Preference will be given to candidates who have held a resident appointment in a General Hospital.

HONORARY MEDICAL PSYCHOLOGISTS. Candidates (Male and Female) having previous experience are required for appointment in the Child Guidance Department (Out-patient Department).

Further information in regard to any of the above appointments can be obtained from the undersigned at the address below, to whom applications, stating experience, together with copies of three recent testimonials, must be sent not later than Wednesday, January 19th. Candidates for the Registrarship are requested to send twelve copies of their application and testimonials.

J. P. WETENHALL, Secretary and House Governor.
73, Welbeck-street, W.1.

London Jewish Hospital,

Stepney Green, E.1.
General Hospital. 109 Beds.

Applications are invited for the post of SURGICAL REGISTRAR. Honorarium at the rate of sixty guineas per annum.

Particulars of the appointment can be obtained from the Secretary, to whom candidates must send ten copies of their applications, with copies of three recent testimonials, not later than Friday, 21st January, 1938.

St. Thomas's Hospital. — Vacancy.

An ASSISTANT PHYSICIAN to DEPARTMENT OF PSYCHOLOGICAL MEDICINE.

Applications, with full details of academic career and copies of testimonials, to be sent to Clerk to the Governors by the 22nd January.

The Prince of Wales's General Hospital,

London, N.15. (238 Beds.)

Applications are invited for the post of HONORARY CLINICAL ASSISTANT in the Children's Department of the Hospital for the year 1938.

Applications for appointment should be sent to the undersigned on or before Thursday, January 6th, 1938.

J. C. BURDETT, Director and House Governor.

Hampstead General and North-West

LONDON HOSPITAL, Haverstock Hill, N.W.3.

APPOINTMENT OF HOUSE PHYSICIAN.

Applications are invited from unmarried Medical Men for the appointment of House Physician, vacant on February 1st next. The salary will be at the rate of £100 per annum, together with board, residence, &c., and the term will be for six months.

Applications to be made on a form which will be supplied by the Secretary, together with copies of not more than three testimonials, should reach the Secretary not later than noon on January 15th next.

Hill End Hospital and Clinic

FOR THE
PREVENTION AND TREATMENT OF MENTAL AND NERVOUS DISORDERS, ST. ALBANS, HERTS.

ASSISTANT MEDICAL DIRECTOR to the CLINIC required, £500 per annum (non-pensionable). Four afternoon sessions weekly. Experience in adult psychotherapy and child guidance essential.

Applications, with particulars of experience and testimonials, to Medical Director.

Royal London Ophthalmic Hospital

(MOORFIELDS EYE HOSPITAL), City-road, E.C.1.

REGISTRAR.

Applications are invited for the office of Registrar. Candidates must be registered Medical Practitioners.

Salary will be at the rate of £200 per annum.

The Registrar will be appointed for one year and will be eligible for reappointment.

Duties will embody the general supervision, indexing, and classification of In- and Out-patient notes.

Applications, stating age and qualifications, with copies of testimonials, must be received by the undersigned not later than the 7th January, 1938.

A copy of the Regulations governing the post will be sent on application.

The present holder is applying for the post.

A. J. M. TARRANT, Secretary.

St. Marylebone and Western General

DISPENSARY,
48, Cosway-street, Marylebone-road, N.W.1.

Applications are invited for the post of HONORARY MEDICAL OFFICER OF INFANT CONSULTATIONS AND CHILDREN'S DEPARTMENT. Every candidate for the office must have a Degree in Medicine of a recognised University of the British Empire, or a Diploma of the Royal College of Physicians. Full particulars can be obtained from the Secretary.

Applications and copies of testimonials must be forwarded not later than January 10th, 1938.

London County Council.

INFECTIOUS HOSPITALS.

Applications invited from Medical Practitioners for appointment as ASSISTANT MEDICAL OFFICERS, Grade II, at various hospitals for infectious diseases. Salary £250 a year, together with board, lodging, and washing. Candidates should have had experience in a resident appointment in a general hospital. Appointments are for one year only in the first instance (renewable for a second year under conditions), but officers are eligible for promotion to Grade I after a minimum period of six months' service.

Application forms obtainable (stamped addressed foolscap envelope necessary) from Medical Officer of Health (Staff Division 2B), County Hall, S.E.1, returnable by 10th January. Canvassing disqualifies.

Bolingbroke Hospital, Wandsworth

Common, S.W.11.
(135 Beds.)

HOUSE PHYSICIAN (Male, unmarried) required. The appointment is for six months, commencing on the 1st February, 1938. Salary £120 per annum, with board, residence, and laundry.

Candidates must be fully qualified and registered.

Applications, stating age, qualifications, and experience, with copies of not more than three testimonials, should be sent to the undersigned on or before January 12th, 1938.

W. S. RANDOLPH BISS, Secretary-Superintendent.

Cheyne Hospital for Children,

Cheyne Walk, Chelsea, S.W.3. (65 Beds.)

Applications are invited for the office of HONORARY AURAL SURGEON to In-patients.

Particulars of the appointment may be obtained from the undersigned, to whom applications (in duplicate) must be sent not later than 15th January, 1938.

R. WILFRED ELLISTON, Secretary.

Princess Louise Kensington Hospital

FOR CHILDREN, St. Quintin-avenue,
North Kensington, W.10.

CLINICAL ASSISTANT required for Out-patient Department Session (Medical) on Thursday mornings.

Applications, giving details of qualifications, with copies of two recent testimonials, should be sent to the undersigned as soon as possible.

H. J. ELEY, Secretary.

Coton Hill Mental Hospital, Stafford.

Wanted, an ASSISTANT MEDICAL OFFICER (Male, unmarried). Salary £400 per annum, with residence, board, and laundry.

Applications, with testimonials (copies only), to be sent to the Chairman as soon as possible.

Royal Sussex County Hospital,

BRIGHTON.
(Beds 272. Six R.M.O.'s.)

CASUALTY HOUSE SURGEON (Male) required 1st February next. Salary £120 per annum, with board, residence, and laundry.

Candidates must hold Medical and Surgical qualifications of the British Empire, and be duly registered under the Medical Acts.

They must be unmarried, and, when elected, under thirty years of age.

Applications, with copies of recent testimonials, to be forwarded to the undersigned.

L. L. W. LANCASTER-GAYE, Secretary-Superintendent.

Peterborough and District Memorial

HOSPITAL.

The Management Committee of the Peterborough and District Memorial Hospital invite applications for the post of Non-resident PATHOLOGIST.

The salary offered is £500 per annum, with share of private fees.

Applicants should have the higher qualifications, or comprehensive experience.

Applications, with copies of three recent testimonials, to be forwarded on or before 11th January next to the undernamed, from whom further particulars may be obtained.

F. A. C. TAYLOR, Secretary-Superintendent.

The Children's Hospital,

KING EDWARD VII MEMORIAL,
BIRMINGHAM, 16.
Out-patients' Department.

With a view to improving the Out-patient Services, the Board invites applications for the following posts:—

RECEIVING ROOM OFFICER, who must be a Pædiatrician, to attend from 9 A.M. to 1 P.M., and who will see all new cases attending in the mornings, including casualties. Salary £250 per annum.

SENIOR CASUALTY HOUSE SURGEON (Resident). Salary £125 per annum.

FIRST ASSISTANT TO THE ORTHOPÆDIC DEPARTMENT, who will assist at the Orthopædic Clinic on Thursday mornings and attend a Fracture Clinic one morning weekly. Salary £160 per annum.

In addition to the above, the personnel of the Out-patient Department includes a whole-time First Assistant to the Ear and Throat Department and a Junior Casualty House Surgeon.

The appointments are for one year, with eligibility for reappointment.

Particulars of duties, &c., can be obtained from the undersigned. The duties to commence on 31st March, 1938.

Applications, together with copies of testimonials, should be sent to the undersigned.

HAROLD F. SHRIMPTON, House Governor.

21st December, 1937.

The Royal Liverpool Children's

HOSPITAL.

There will be vacancies on April 1st next for Two RESIDENT HOUSE PHYSICIANS and Two RESIDENT HOUSE SURGEONS, at the CITY BRANCH, Myrtle-street. The appointments will be for a period of six months. Salary in each case at the rate of £100 per annum. Applications, with copies of recent testimonials, to be sent to the Secretary, Royal Liverpool Children's Hospital, Myrtle-street, Liverpool, 7, on or before Monday, 10th January, 1938.

There will be vacancies on April 1st next for One RESIDENT MEDICAL OFFICER and One RESIDENT SURGICAL OFFICER at the HESWALL BRANCH of the Institution (240 Beds). The appointments will be for a period of six months. Salary in each case at the rate of £120 per annum.

Applications, with copies of recent testimonials, to be sent to the Secretary, Royal Liverpool Children's Hospital, Myrtle-street, Liverpool, 7, on or before Monday, 10th January, 1938.

Worthing Hospital.

Applications are invited for the post of HOUSE SURGEON, vacant on the 20th January. The appointment is for six months. Salary at the rate of £130 per annum, with board, lodging, and laundry.

Candidate (Male) should forward application, stating age, nationality, qualifications, and experience, accompanied by testimonials, to the undersigned.

A. V. OAKTON, Secretary-Superintendent.

28th December, 1937.

Royal Surrey County Hospital,

GUILDFORD.
(216 Beds.)

Wanted, 1st February, 1938, HOUSE SURGEON (Male), Six months' appointment, recognised for the F.R.C.S. Duties. General Surgery, Orthopædics, and Casualties. Salary £150 per annum, with board, residence, and laundry.

Applications, stating age and essential particulars, with copies of not more than three testimonials, to reach the Secretary-Superintendent not later than 11th January, 1938.

Victoria Hospital, Deal.

(50 Beds.)

Applications are invited for the post of RESIDENT MEDICAL OFFICER (Male, British nationality, unmarried). The appointment for six months, from January 15th, 1938. Salary £150 per annum, with board, lodging, and laundry. Special knowledge of anæsthetics desirable.

Applications, stating age, and qualifications, together with copies of three recent testimonials, to be sent not later than January 10th to the Secretary of the Medical Board, Victoria Hospital, Deal.

City of Leicester.

RESIDENT MEDICAL OFFICER.

Resident Medical Officer (Male) required for the City Isolation Hospital and Sanatorium, Groby-road. Appointment for a period of six months, renewable if service is satisfactory for a further period of six months.

Salary at the rate of £300 per annum, with the usual residential emoluments. The officer appointed may be required to assist with Infant Welfare work.

Applications, on forms to be supplied, to be sent to the undersigned not later than the 10th January, 1938.

E. K. MACDONALD, Medical Officer of Health.

Health Offices, Grey Friars, Leicester, January, 1938.

City of Manchester.

CRUMPSALL HOSPITAL. 1543 Beds.

The Public Health Committee invites applications from registered Medical Men for the post of RESIDENT ASSISTANT MEDICAL OFFICER at the above-named Hospital.

The salary for the appointment is £200 per annum, with board, residence, and laundry in addition, subject to the Manchester Corporation conditions of service.

The appointment will be made in the first instance for a period of six months, renewable for a further six months, but not renewable thereafter.

Full information and forms of application may be obtained from the Medical Officer of Health, Sunlight House, Quay-street, Manchester, 3, and applications for the post must be received by him not later than 12th January, 1938.

F. E. WARBRECK HOWELL, Town Clerk.

Town Hall, Manchester, 2, 22nd December, 1937.

Severalls Mental Hospital, Colchester.

Required, an ASSISTANT MEDICAL OFFICER (Lady), at the above-named Hospital.

Persons registered under the Medical Acts, with experience of a resident appointment in a General Hospital, are invited to apply for the appointment.

Salary £510, rising annually by £25 to £610 per annum. Possession of the Diploma of Psychological Medicine carries £50 per annum extra to the scale.

The appointment is subject to the terms of the Asylums Officers' Superannuation Act, 1909.

Applications, stating full particulars of qualifications, experience, age, &c., to be addressed to the Medical Superintendent.

The Royal Infirmary, Sheffield.

(500 Beds.)

The Board of Management invite applications for the post of SENIOR CASUALTY OFFICER.

The salary attached to the post is £150 per annum, with board and residence. The appointment will be tenable for the period of six months from 1st January, 1938. This post is next in seniority to that of Resident Surgical Officer.

Applications, with copies of testimonials, to be sent to the General Superintendent and Secretary forthwith.

8th December, 1937.

City of Leeds.

KILLINGBECK SANATORIUM.

SENIOR ASSISTANT RESIDENT MEDICAL OFFICER.

Applications are invited from registered Medical Practitioners (Male) for the post of Senior Assistant Resident Medical Officer at the Tuberculosis Sanatorium, Killingbeck (242 Beds).

Applicants must be unmarried, and preference will be given to those who have held a general hospital appointment and had experience in the treatment of pulmonary and surgical tuberculosis in sanatoria. Under the present salaries scale of the Council, the commencing salary for the post is £425 per annum and the maximum salary £500 per annum, with board, residence, and laundry, these emoluments being valued for superannuation purposes at £120 per annum, together with annual increments of £25 subject to satisfactory service. The first increment will take effect on the 1st April following the completion of twelve months' service.

The person appointed will be required to pass a medical examination and to contribute to the Superannuation Fund established under the Local Government and Other Officers' Superannuation Act, 1922.

Applications on a form to be obtained from the undersigned, together with copies of three recent testimonials, and endorsed "Tuberculosis Officer," must be received at the Health Department, 12, Market-buildings, Vicar-lane, Leeds, 1, not later than 10 A.M. on Saturday, January 15th, 1938.

J. JOHNSTONE JERVIS, Medical Officer of Health.

Canvassing in any form, either directly or indirectly, will be a disqualification.

County Borough of West Bromwich.

HALLAM HOSPITAL. (472 Beds.)

HOUSE PHYSICIAN.

Applications are invited from duly qualified Male registered Practitioners for the above-mentioned post.

The appointment is for six months, with eligibility for a further six months. Either party may give six weeks' notice terminating the appointment. There is a visiting staff of eight physicians and surgeons, one resident surgical officer, and three resident medical officers.

The person appointed will be required to act under the general direction of the Medical Officer of Health, and the Medical Clinical Superintendent.

Salary £200 per annum, and board residence. All fees received by the person appointed will be payable into the funds of the Council.

Applications, stating age, experience, and qualifications, together with copies of three recent testimonials, must be forwarded to the Medical Officer of Health, 2, Lodge-road, West Bromwich, so as to arrive not later than by first post on Thursday, 13th January, 1938.

ALFRED WICKHAM, Town Clerk.

Town Hall, West Bromwich, 24th December, 1937.

St. Bartholomew's Hospital,

ROCHESTER. (126 Beds.) Four Residents.

The House and Finance Committee invite applications for the post of CASUALTY OFFICER, which will become vacant on 1st February, 1938.

Candidates must be unmarried, qualified, and registered Medical Men. The appointment is for six months. Salary at the rate of £150 per annum, with board, residence, and laundry.

Applications, stating age, qualifications, experience, &c., accompanied by copies of two testimonials, or one from the Dean of the candidate's Medical School, should be received by the Superintendent-Secretary not later than 13th January, 1938.

Canvassing the Honorary Staff will disqualify.

Salford Royal Hospital.

(256 Beds.)

Applications are invited from duly registered candidates (Male) for a HOUSE SURGEON for six months ending June 30th next. Salary £125 per annum.

Forms of application, obtainable from the undersigned, must be delivered without delay.

By order of the Board.

H. B. SHELSWELL, General Superintendent and Secretary.

Kent and Canterbury Hospital.

(181 Beds. 4 R.M.O.'s.)

Applications are invited for the post of HOUSE SURGEON (Male) to the Special Departments (Ear, Nose, and Throat Ophthalmic and Genito-urinary).

The appointment is for six months commencing immediately.

Salary £125 per annum, with board, residence, and laundry.

Applications, together with copies of recent testimonials, should be forwarded immediately to the undersigned.

J. F. KENT, Superintendent and Secretary.

The Royal Infirmary, Sunderland.

(288 Beds.)

JUNIOR HOUSE SURGEON (Male) required at once. Salary £120 per annum, with board, residence, laundry, &c.

Applications, stating age and qualifications and accompanied by copies of testimonials, to be sent to the undersigned.

The Infirmary possesses modern equipment and has up-to-date Pathological and X Ray Departments. The Resident Medical Staff consists of a R.S.O. and six others. The surgical appointments are recognised by the Royal College of Surgeons of England for the six months' training required of candidates before admission to the Final Examination for the Fellowship.

M. J. HUNTLEY, House Governor and Secretary.

City of Liverpool.

RESIDENT ASSISTANT MEDICAL OFFICER, FAZAKERLEY SANATORIUM. (265 Beds.)

Applications are invited for the above appointment for a period of one year at a salary of £250 per annum, together with usual residential allowances.

Candidates must possess a registered Medical and Surgical qualification, and it is desirable that they should have held previous appointments in a teaching hospital.

Canvassing will be deemed a disqualification.

Applications to be made on forms obtainable from the Medical Officer of Health, Municipal Annexe, Dale-street, Liverpool, to be endorsed "Resident Assistant Medical Officer" and returned to the undersigned so as to be received not later than Monday, 10th January, 1938.

W. H. BAINES, Town Clerk.

Municipal Buildings, Dale-street, Liverpool, 2.

December, 1937.

The Kidderminster and District General

HOSPITAL.

JUNIOR HOUSE SURGEON (Male) required. Salary £100 per annum, with residence, board, and laundry.

Applications, with not more than three testimonials, to be sent to the Secretary, Miss SUSAN SMITH, South Cliff, Kidderminster.

Doncaster Royal Infirmary.
(185 Beds.)

HOUSE SURGEON (Male) required immediately. Six House Surgeons are resident.

Salary at the rate of £175 per annum, with residence, board, and laundry.

This large industrial area offers excellent opportunities for gaining experience.

Applications, accompanied by not more than three testimonials, to be sent to the undersigned immediately.

R. LANCASTER, Secretary-Superintendent.

Surrey County Council.

PUBLIC HEALTH DEPARTMENT.

SURREY COUNTY HOSPITAL, EPSOM. (330 Beds.)

RESIDENT ASSISTANT MEDICAL OFFICER.

Applications are invited from registered Medical Practitioners for the appointment of Resident Assistant Medical Officer at the Surrey County Hospital, Epsom, which will be vacant on the 1st February, 1938.

Applicants must have held a previous Resident Hospital appointment, and preferably have had experience in Maternity work and minor surgery.

The appointment is for a period of six months, renewable for a further period of six months, and the gross salary is at the rate of £375 per annum, less a deduction of £125 in respect of full residential allowances.

Applications, stating age, qualifications, and experience, and enclosing copies of not more than three recent testimonials, should be addressed to the Medical Superintendent, Surrey County Hospital, Dorking-road, Epsom, so as to be received not later than the 5th January, 1938.

Canvassing will disqualify.

DUDLEY AUKLAND, Clerk of the Council.

County Hall, Kingston-upon-Thames,
20th December, 1937.

Surrey County Council.
WARREN ROAD HOSPITAL, GUILDFORD.

APPOINTMENT OF MEDICAL SUPERINTENDENT.

Applications are invited from registered Medical Practitioners for the appointment of Medical Superintendent at the Warren-road Hospital, Guildford (255 Beds) which at present forms part of a Public Assistance Institution, but which will, subject to the Minister of Health's approval, be appropriated for Public Health purposes on the 1st April, 1938. The Medical Superintendent will be required to commence duty as from the date of appropriation.

The Medical Superintendent may also be required to act without additional remuneration as Medical Officer of the remainder of the Institution accommodating 153 persons, which will be retained for Public Assistance purposes.

Candidates should have had considerable experience in Hospital Administration and should possess a higher qualification.

The salary will be at the rate of £800 per annum, rising, subject to satisfactory service, by annual increments of £50, to a maximum of £1000 per annum.

The Medical Superintendent will in due course be provided with an unfurnished house (free of rates), valued at the rate of £100 per annum, in which he will be required to live when it is provided. Until such time the cash value of this emolument will be paid to the Medical Superintendent.

The appointment will be subject to the staffing regulations of the Council and the Officer appointed will be required to devote his whole time to the service of the Council, and any fees he may receive must be paid into the County Fund.

The Officer appointed will be required to pass a Medical Examination, and the post will be a designated one for the purposes of the Local Government and Other Officers' Superannuation Acts.

Applications, stating age, qualifications, and experience, and enclosing copies of not more than three recent testimonials, should be endorsed "Medical Superintendent," and sent to the County Medical Officer, County Hall, Kingston-upon-Thames, so as to reach him not later than 12 noon on the 8th January, 1938.

Canvassing will disqualify.

DUDLEY AUKLAND, Clerk of the Council.

County Hall, Kingston-upon-Thames,
20th December, 1937.

City Mental Hospital, Humberstone,
LEICESTER.

ASSISTANT MEDICAL OFFICER (Male).

Residential General Hospital experience is desirable. Salary £350, rising by £50 per annum to £450 per annum, together with board, lodging, washing, and attendance, valued for purposes of superannuation at £150 per annum. If the applicant be married he will be permitted to live out, and the salary will commence at £500, rising by £50 per annum to £600. An additional £50 per annum will be paid for possession of a D.P.M.

The appointment is subject to the provision of the Asylums Officers' Superannuation Act, 1909.

There is a good laboratory and two active Psychiatric Clinics, one attached to the Leicester Royal Infirmary.

Applications, giving particulars of experience, &c., together with names of three references, one of which should be non-professional, and marked "A.M.O.," to be sent to the Medical Superintendent.

Warwickshire and Coventry Mental
HOSPITAL,
HATTON, Near WARWICK.

TEMPORARY MEDICAL OFFICER required for at least twelve months. Salary £350 per annum plus emoluments valued at £150 per annum, consisting of quarters and full board, together with an additional £50 per annum if the candidate should hold a Diploma in Psychological Medicine.

Applications, with copies of two recent testimonials, to be sent to the Medical Superintendent by the 10th January, 1938.

Birmingham and Midland Eye Hospital.
(114 Beds.)

Applications are invited from duly qualified Medical Practitioners for the post of HOUSE SURGEON at the above Hospital.

Salary £130 per annum (rising to £150 at the end of six months' satisfactory service), and £10 laundry allowance.

The Resident Staff consists of a Resident Surgical Officer and three House Surgeons.

Applications, with testimonials and evidence of registration, must be received not later than Thursday, January 6th, 1938.

J. W. PEARCE, General Superintendent.

Church-street, Birmingham, 3.

County Borough of Walsall.

MANOR HOSPITAL.

ASSISTANT MEDICAL OFFICER.

Applications are invited from duly qualified persons for the appointment of Assistant Medical Officer at the above Hospital, which contains 303 Beds. (Admissions number nearly 4000 yearly.) The applicants should have had experience in general medicine.

Commencing salary £350 per annum, rising by annual increments of £25 to a maximum of £450 per annum, together with the usual residential allowances.

The appointment will also be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922.

The person will be required to act under the general direction of the Medical Superintendent, from whom any further particulars of the appointment may be obtained.

Forms of application may be obtained from the undersigned, and should be returned to me, accompanied by copies of not more than three recent testimonials, not later than 8th January, 1938.

JAMES A. M. CLARK, Medical Officer of Health.

Health Department, Council House, Walsall,
23rd December, 1937.

Royal Berkshire Hospital, Reading.
(338 Beds.)

Applications are invited for the post of CASUALTY OFFICER (Male) which falls vacant on the 1st February, 1938.

The appointment is for six months, and candidates must be fully qualified and registered.

Remuneration at the rate of £150 per annum, with board, residence, and laundry.

Applications, stating age and experience, with copies of three recent testimonials, to be sent to the undersigned on or before January 14th, 1938.

H. E. RYAN, Secretary and House Governor.

City and County of the City of Chester.

DEPUTY MEDICAL OFFICER OF HEALTH AND DEPUTY SCHOOL MEDICAL OFFICER.

Applications are invited for the above-mentioned appointment from duly registered Medical Practitioners of not more than thirty-five years of age.

The salary offered will commence at £600 per annum, rising by annual increments of £25 to a maximum of £700 per annum.

Further particulars of the duties, terms, and conditions of the appointment and application form can be obtained from the Medical Officer of Health, Town Hall, Chester, to whom applications (to be made on the form provided), accompanied by copies of three recent testimonials, are to be delivered not later than Wednesday, January 12th, 1938.

The successful applicant will be required to pass a medical examination and to contribute 5 per cent. of his salary to the Council's superannuation fund.

Canvassing, directly or indirectly, will be a disqualification.

J. H. DICKSON, Town Clerk.

Borough of Morecambe and Heysham.

APPOINTMENT OF MEDICAL OFFICER OF HEALTH, &c.

Applications are invited from duly qualified and registered Medical Practitioners who have a Diploma in Sanitary Science, Public Health, or State Medicine, not exceeding forty-five years of age, for the appointment of Medical Officer of Health, School Medical Officer, and Medical Officer to the Port Health Authority.

Salary £800, rising (subject to satisfactory service) by annual increments of £50 to £900 per annum, plus a car allowance of £50 per annum.

Forms of application and particulars and conditions of appointment will be supplied on application to the undersigned.

The closing date is the 10th January, 1938.

Canvassing will be deemed a disqualification.

ROGER ROSE, Town Clerk.

Town Hall, Morecambe and Heysham,
14th December, 1937.

The University of Liverpool.

GEORGE HOLT CHAIR OF PATHOLOGY.

The Council of the University will proceed in February, 1938, to make an appointment to the Chair of Pathology.

The emoluments of the post are £1200 per annum. Those who desire that their names should be considered are invited to make application (before 12th February) to the undersigned who will, on request, furnish full particulars regarding the terms and conditions of the appointment.

December, 1937. STANLEY DUMBELL, Registrar.

City of Manchester.

BOOTH HALL HOSPITAL FOR CHILDREN. (760 Beds.)

The Public Health Committee invites applications from registered Medical Women for the post of RESIDENT ASSISTANT MEDICAL OFFICER at the above-named hospital.

The salary for the appointment is £200 per annum, with board, residence, and laundry in addition subject to the Manchester Corporation conditions of service.

The appointment will be made in the first instance for a period of six months, renewable for a further six months, but not renewable thereafter.

Full information and forms of application may be obtained from the Medical Officer of Health, Sunlight House, Quay-street, Manchester, 3, and applications for the post must be received by him not later than January 8th, 1938.

F. E. WARBRECK HOWELL, Town Clerk.

Town Hall, Manchester, 2, 1st December, 1937.

Lincoln County Hospital.

Wanted, SENIOR HOUSE SURGEON, Male, unmarried. Salary at rate of £250 per annum, rising to £300 per annum at the conclusion of six months' approved service. Board, residence, and washing will also be provided.

Applications, stating age and other particulars, with copies of not more than three testimonials, are to be sent to the undersigned, from whom further particulars may be obtained.

ARTHUR MOORE, Secretary-Superintendent.

Lincoln, December 15th, 1937.

Borough of Morley.

APPOINTMENT OF ASSISTANT MEDICAL OFFICER OF HEALTH AND ASSISTANT SCHOOL MEDICAL OFFICER.

Applications are invited from registered Medical Practitioners (Male or Female) for the above-named post. It is desirable that applicants should hold a Diploma in Public Health.

Applicants should have had at least three years' experience in the practice of their own profession and have had special experience in Maternity, Child and Infant Welfare work, and in the administration of Dental and other Anæsthetics.

The person appointed will be required to work under the supervision of the Medical Officer of Health and the School Medical Officer, and to devote the whole of his or her time to the duties of the office, which will consist chiefly of School Medical, Maternity and Child Welfare work, together with such other duties in the Public Health Department as may be required.

The appointment will be designated under the Local Government and Other Officers' Superannuation Act, 1922, and the successful candidate will be required to pass a medical examination.

Salary will be at the rate of £500 per annum, rising, subject to satisfactory service, by annual increments of £25 to £700 per annum. The appointment will be determinable by one month's notice on either side.

Forms of application may be obtained from the undersigned, to whom they should be returned, completed, in a sealed envelope endorsed "Assistant Medical Officer," together with copies of three recent testimonials, on or before 10th January, 1938.

E. V. FINNIGAN, Town Clerk.

Town Hall, Morley, Leeds.

Bristol Royal Infirmary.

Applications are invited for the following Resident Medical Appointments for the six months commencing March 1st, 1938:—

Three HOUSE PHYSICIANS (one of whom also acts as House Physician to the Cancer Department).
Four HOUSE SURGEONS and One ASSISTANT HOUSE SURGEON.
One HOUSE SURGEON to the Casualty Department.
One HOUSE SURGEON to the Fracture Department.
One HOUSE SURGEON to the Ear, Nose, and Throat Department.
One SENIOR OBSTETRIC HOUSE SURGEON.
One JUNIOR OBSTETRIC HOUSE SURGEON.

Salaries at the rate of £80 per annum, except in the case of the Senior Obstetric House Surgeon who will receive a salary at the rate of £100 per annum and the Senior Casualty House Surgeon who will receive a salary at the rate of £150 per annum.

Candidates, who must be duly qualified, to send in their applications on forms to be obtained from the undersigned, which must be returned on or before January 15th, 1938, together with copies of not more than three testimonials.

The elected candidates must become members of the Medical Defence Union before taking up their appointments.

ELLIS C. SMITH, F.C.I.S., Secretary and House Governor.

Norfolk and Norwich Hospital,

NORWICH. (417 Beds.)

Applications are invited for the following posts: GENERAL HOUSE SURGEON and HOUSE SURGEON TO THE SPECIAL DEPARTMENTS (Ear, Nose, and Throat and Ophthalmic). Salary for post of General House Surgeon £120 per annum. Salary for post of House Surgeon to Special Departments £160 per annum, both with board, residence, and laundry.

Candidates (Male) must be unmarried and must possess registered qualifications.

Applications, stating age, nationality, &c., together with copies of testimonials, should reach the undersigned not later than Tuesday, 11th January, 1938.

FRANK INCH, House Governor and Secretary.

31st December, 1937.

The Incorporated Liverpool School of

TROPICAL MEDICINE.
(UNIVERSITY OF LIVERPOOL.)

Applications are invited for the post of ASSISTANT LECTURER AND DEMONSTRATOR in the Department of Entomology at the above School.

Candidates should be graduates of a British or Colonial University, and must hold a medical qualification or a good degree in Zoology.

Initial salary £400 per annum.

Applications should be made not later than January 31st, 1938, to the Secretary, School of Tropical Medicine, Pembroke-place, Liverpool, 3, from whom further particulars may be obtained.

Durham County Hospital,

DURHAM CITY.
(100 Beds.)

Male HOUSE SURGEON required. Duties to commence 1st February, 1938.

Salary at the rate of £150 per annum, with board, residence, and laundry.

Appointment for six months, subject to renewal for similar period.

Applications, stating age, experience, and nationality, accompanied by three recent testimonials, should be addressed to the undersigned not later than 14th January, 1938.

22nd December, 1937. NORMAN BROWN, Secretary.

The Prince of Wales's Hospital,

Greenbank-road, PLYMOUTH.
(Formerly South Devon and East Cornwall Hospital.)
(264 Beds.)

Applications are invited for the post of HOUSE SURGEON. Salary £120 per annum with board, residence, and laundry.

Appointment is tenable for six months and is subject to renewal. Duties to commence 26th January.

The Hospital is officially recognised for the surgical practice required before admission to the Final Fellowship Examination of the Royal College of Surgeons of England.

Applicants must be registered under the Medical Acts. Applications, stating age and qualifications, with copies of three recent testimonials, to reach the undersigned by 14th January. ARTHUR R. CASH, Gen. Supt. and Secretary.

Prince of Wales's Hospital, Devonport.

(Formerly Royal Albert Hospital, Devonport.)
(64 Beds.)

Applications are invited for the post of JUNIOR HOUSE SURGEON. Salary £120 per annum, with board, residence, and laundry.

Duties to commence 29th January, 1938. Appointment is tenable for six months and is subject to renewal, or promotion to the senior position when this post becomes vacant. Applicants must be registered under the Medical Acts.

Applications, stating age, and qualifications, with copies of three recent testimonials, to reach the undersigned not later than 14th January.

ARTHUR R. CASH, Gen. Supt. and Secretary.

Prince of Wales's Hospital, Greenbank-road, Plymouth.

ROYAL EYE AND EAR HOSPITAL, BRADFORD

(94 Beds.)

HOUSE SURGEON (Lady) required. Salary £180, with board, residence, and laundry.

Applications, stating qualifications, age, &c., with copies of recent testimonials, should be sent to the undersigned on or before January 12th. F. BRIGGS, Secretary-Superintendent.

Wolverhampton and Midland Counties

EYE INFIRMARY.

HOUSE SURGEON wanted. Ophthalmic experience preferred. Duties to commence early in February, 1938. There are 50 Beds for In-patients and large Out-patient Department. Salary £150 a year, with furnished apartments, board, and laundry. Ladies and gentlemen applying should state age and experience, and send copies of three recent testimonials to reach the Secretary not later than first post 18th January.

30th December, 1937. EUSTACE LEES, Secretary.

The Royal Army Medical Corps ASSOCIATION, 85, Eccleston-square, S.W.1 (Telephone: Victoria 2722), supplies qualified Dispensers, Book-keepers, Laboratory Assistants, Sanitary Assistants, Male Nurses, Mental and Special Treatment Orderlies, Dental Clerk Orderlies, Porters, Caretakers, &c., without charge to respective employers.

Typewriting.—Specialists in Typing Medical and Scientific Papers, Lectures, Theses, and Books. Highest recommendations. Shorthand typists always available. Proof-reading, indexing. Translations in all European languages.—Margaret Watson Ltd., 16, Palace Chambers, Bridge-street, S.W.1. WHItehall 3838.

Wanted, Original Articles, Scientific, and for private practitioners, for British edited MEDICAL JOURNAL in Asia, est. 15 years. Authors supplied 100 reprints free. Permission republish other journals.—Manager, 86a, Lloyd's-road, Madras, India.

Partnership, suit young M.D. Good western town, two years' purchase.—Address, No. 335, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

Death Vacancy.—Somerset Country, within fifteen miles of Bristol. Income about £700. Nice house and garden. Full particulars BECKTON'S MEDICAL AGENCY, 18, Dix's-field, Exeter, and 6, Duke-street, Adelphi, W.C.2.

Resident Patients.—Doctors desiring accommodation for private patients (mental, neurasthenic, invalid, &c.) may have, post free, illustrated BOOKLET describing residences, &c., of numerous colleagues in all parts—town, country, and seaside—who receive such patients.—Apply, Manager, British Medical Bureau, Tavistock House South, Tavistock-square, London, W.C.1.

London.—Cora Hotel, Upper Woburn-place, near B.M.A. Headquarters. Accommodates 235 visitors. Modern comforts. Excellent table. A.A. and R.A.C. recommended. Room, bath, and table d'hôte breakfast, 8s. 6d. A few rooms 9s. 6d. and 10s. 6d. per person.

Harley Street and District.—A number of excellent CONSULTING ROOMS are available for full and part-time use at moderate rents. Particulars on application.—ELGOOD & Co., 10, Henrietta-street, Cavendish-square, W.1. Lang. 2601.

TO OPHTHALMIC SURGEONS.

A firm of Dispensing Opticians would be glad to hear from Ophthalmic Surgeons, either out of town or just commencing to practice, who would find it convenient to have a sight-testing room put at their disposal for appointments with patients in, or visiting, London.
D. J. MASTERS, LTD.,
Egyptian House, 170/173, Piccadilly, London, W.1.

TO BE LET.

Harley Street, W.1.—Part time in comfortably Furnished CONSULTING ROOM. Half day or more. Reasonable inclusive rental.—Address, No. 343, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

HAMPSTEAD. PROMINENT CORNER POSITION

Imposing Detached Non-basement RESIDENCE with magnificent Reception-rooms.

EMINENTLY SUITABLE for DOCTOR or DENTIST

Central heating. Constant hot water. Parquet floors. Luxurious fitments.

Lounge Hall, Drawing-room, Dining-room, Smoking-room, Superb Winter Garden with marble floor, Billiards-room, non-basement offices, 10 Bedrooms, 4 Bath-rooms. GARAGE. TO LET ON LEASE. Additional Garage with accommodation for Chauffeur available if desired.

SOLE AGENTS, HAMPTON & SONS, LTD., 39, Heath-street, Hampstead, N.W.3.

ESTABLISHED 1845.

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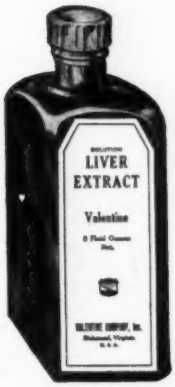

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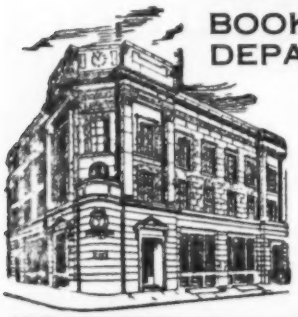

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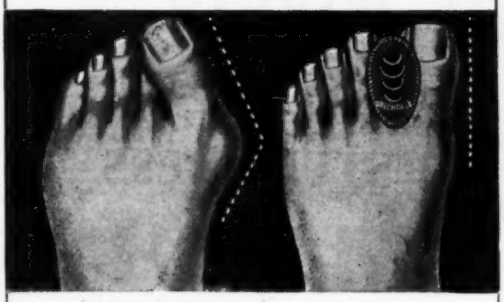

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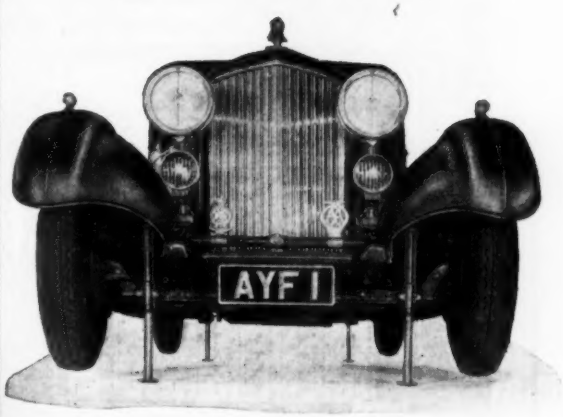

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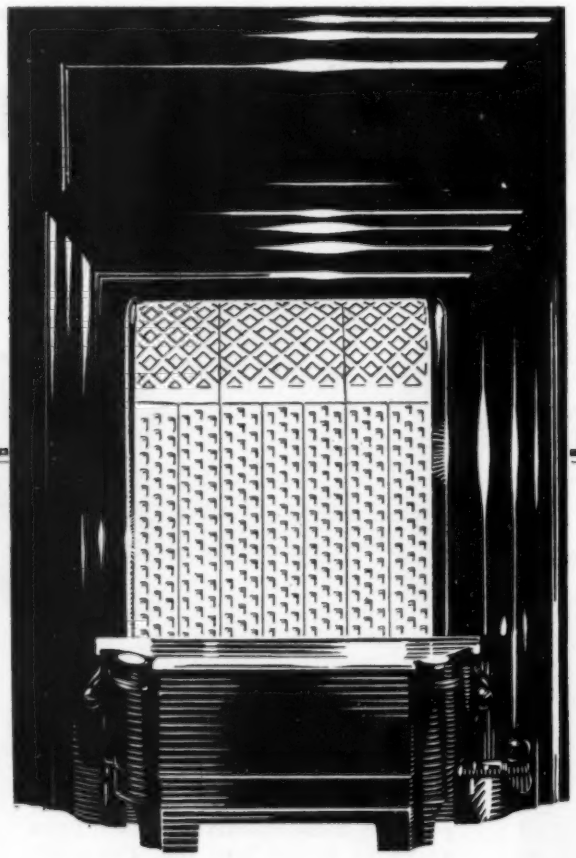

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AND CHOLANGITIS

ARE MOST EFFECTIVELY TREATED WITH

ANTICALCOLUM

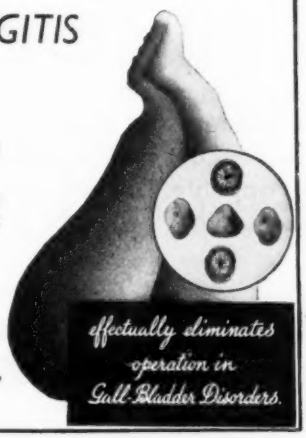
ANTICALCOLUM acts absolutely painlessly and harmlessly within a few hours.

ANTICALCOLUM opens and immunises the bile ducts and frees the patient from colic attacks and pain.

Recurrences practically unknown

Clinical Literature on request

FRANCIS RIDDELL LIMITED,
AXTELL HOUSE, WARWICK ST., REGENT ST.,
LONDON, W.1.



The aqueous-acid-glycerin extract of the entire mucosa of the fresh stomach, including the pyloric.

EXTRACTUM GASTRICUM

Containing the peptic enzymes—proteolytic and milk curdling, the activated principles and naturally associated soluble organic and inorganic constituents. It is a stable, potent fluid, free from alcohol and free from sugar, with an acidity approximately of 0·25% absolute hydrochloric acid, loosely bound to protein, and 25% pure glycerin.

The usual dose is one to two teaspoonfuls, diluted with a little cold water.

Extractum Gastricum is put up in 6-ounce unlettered bottles without literature.

Originated and Manufactured by
Fairchild Bros. & Foster (Inc. N.Y.),
NEW YORK, and 65, Holborn Viaduct, London, E.C.1.

Agents:
Burroughs Wellcome & Co.,
LONDON, SYDNEY, and CAPE TOWN.

After Influenza Pneumonia and other Acute Infections

The general action of 'Bynin' Amara is manifested by increased tone of the nervous, muscular and cardio-vascular systems. It stimulates the digestive organs, improves the flagging appetite, corrects anæmia and aids nutrition generally.

The marked asthenia and nervous depression which are prominent features of the post-influenzal state, yield rapidly to its influence. A course whenever there is any indication of lowered resistance is a valuable safeguard against infection.

In bottles at 2/-, 3/6, 6/6 and 12/-

Descriptive literature and clinical trial sample on application.

'BYNIN' AMARA

the effective tonic

ALLEN & HANBURYS Ltd., London, E.2

Telephone: Mansion House 1181 (10 lines). Telegrams: "Greenburys, Bath, London."

ALASIL

Better Salicylate Therapy

WHATEVER be the season of the year, there is a wide sphere of utility for "Alasil," the improved form of salicylate medication. "Alasil" is a very definite advance on ordinary compounds of salicylic or acetyl-salicylic acid both in therapeutic efficiency and in freedom from unpleasant gastro-intestinal sequelæ. This high tolerability is due to the fact that "Alasil" is composed of calcium acetyl-salicylate—the least irritating of the salicylate compounds—and "Alocol" (Colloidal Hydroxide of Aluminium), a powerful gastric sedative and antacid.

A careful series of experimental tests has recently shown that "Alasil" is more completely absorbed than ordinary salicylate compounds, and that it is practically free from the risk of liberating free salicylic acid in the stomach. Wide clinical experience anticipated these findings by demonstrating that the use of "Alasil" can be pushed or prolonged to a much greater extent than ordinary salicylate compounds, and that it can be given with equal safety to children, adults, the aged, and patients with finely-balanced digestive capacities.

A supply for clinical trial with full descriptive literature sent free on request.

A. WANDER, LTD.,
Manufacturing Chemists,
184, Queen's Gate, London, S.W.7.
Laboratories and Works: King's Langley, Herts.

M269

DIPHTHERIA PROPHYLAXIS

The use of Alum Precipitated Toxoid

A. P. T.

(EVANS)

FOR CHILDREN OF 8 YEARS AND UNDER.

A. P. T. (Evans) is a powerful antigen; immunity resulting from TWO INJECTIONS approaches 100 per cent. A dosage of 0.1 cc. to 0.2 cc. followed by 0.5 cc. after two weeks is recommended.

As an alternative to this procedure, the first dose may with advantage be increased to 0.5 cc., so that in the event of a child not returning for a second injection, the degree of immunity will be higher than that resulting from the smaller initial dose.

A. P. T. (Evans) *is supplied in* :—

Ampoules of 0.5 cc.	**2/6** each.
Set of 2 × 0.5 cc. immunising doses	**4/-** per box.
Rubber-capped bottles of 5 cc.	**16/-** each.
Rubber-capped bottles of 10 cc.	**30/-** each.

Made in England at EVANS BIOLOGICAL INSTITUTE by

EVANS SONS LESCHER & WEBB LTD.

LIVERPOOL AND LONDON

RADIOSTOLEUM EMULSION WITH VITAMIN C

Physicians, particularly pediatricians, will recognise the value of the new B.D.H. vitamin preparation Radiostoleum Emulsion with Vitamin C. This is a palatable and easily-digested emulsion and contains in one fluid drachm (1 teaspoonful) 6000 international units of Vitamin A, 1200 international units of Vitamin D and 200 international units of Vitamin C.

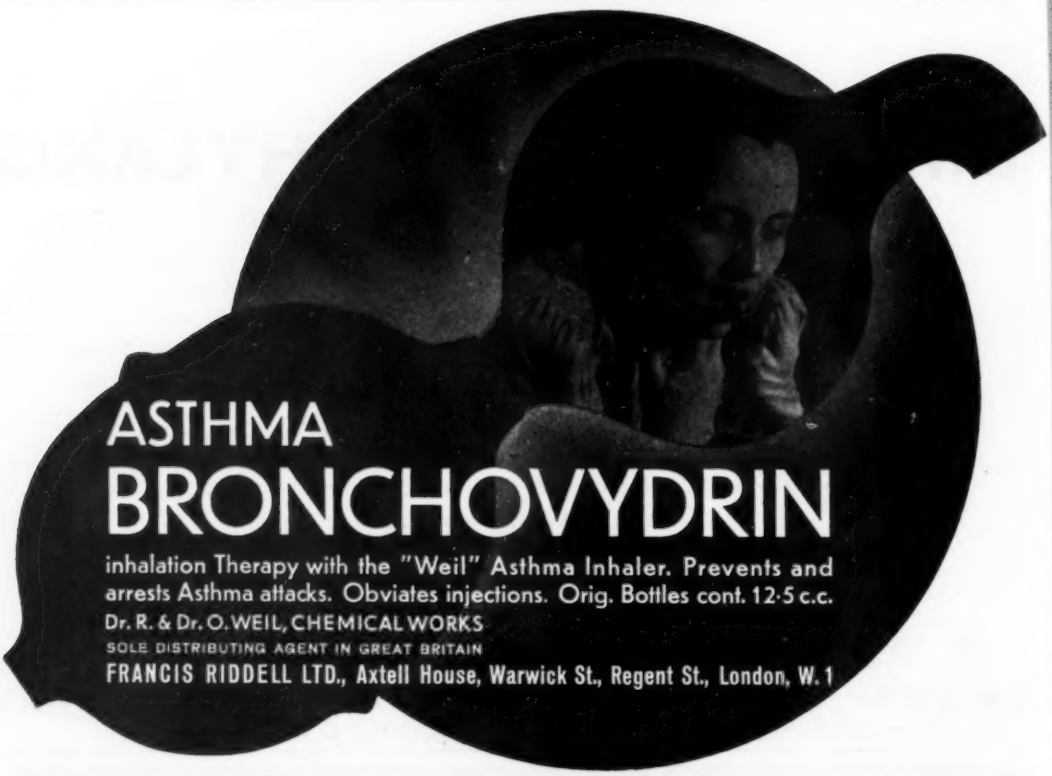
The administration to infants, whether breast-fed or bottle-fed, of Vitamins A and D in the form of an oil and Vitamin C in the form of orange juice sometimes presents difficulty. This is obviated by the use of Radiostoleum Emulsion with Vitamin C which can be given direct from a spoon or mixed with the feed.

Samples for clinical trial are available on request.

Radiostoleum Emulsion with Vitamin C is issued in bottles containing 4 fl. oz. at 2/6 per bottle.

THE BRITISH DRUG HOUSES LTD. LONDON N.1

RstmC/Em/S/338



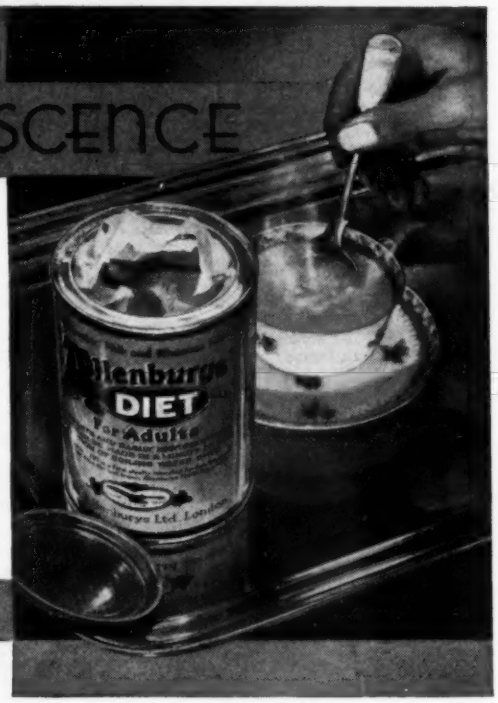
IN ILLNESS AND CONVALESCENCE

When the digestive powers are weak or impaired Allenburys Diet is pre-eminently suitable as a basis of feeding. Entirely distinct from Allenburys Foods for Infants, the Diet is made from pure, rich, full-cream milk and whole wheat, partially pre-digested during manufacture. Vitamin D is added. The delicate flavour of the Diet may be varied by the addition of coffee, cocoa, etc.

In tins, 2/1, 4/- and 7/6.

Clinical trial sample will be sent post free on application.

MADE IN A MINUTE



ALLENBURYS DIET

ALLEN & HANBURYS LTD., LONDON, E.2

Telephone: Bishopsgate 3201 (12 lines)

Telegrams: "Greenburys Beth London"

TRADE MARK **'LEXTRON'** BRAND

LIVER-STOMACH CONCENTRATE WITH IRON AND VITAMIN B COMPLEX

Rapid convalescence from many debilitating diseases can be brought about with 'Lextron' when secondary anaemia has assumed a conspicuous place in the clinical picture. On 'Lextron' the patient receives all the materials essential for blood regeneration.

'Lextron' brand liver-stomach concentrate with iron and Vitamin B complex is supplied in bottles of 42, 84, and 500 'Pulvules' brand filled capsules.

Prompt Attention Given to Professional Inquiries

Lilly

ELI LILLY AND COMPANY LIMITED

2, 3 and 4, DEAN STREET : : : LONDON, W. 1

Distributing Agent in Britain for

ELI LILLY AND COMPANY, INDIANAPOLIS, U.S.A.

EFFICIENCY ESTABLISHED BY BIOLOGICAL TESTS AND CLINICAL USE

An Extract of Adrenal Cortex for the treatment of Addison's Disease

and other conditions

EUCORTONE is an extract of adrenal cortex, containing the hormone, cortin. It is highly successful in Addison's disease. Particularly striking in its rapid restoration of appetite, weight, strength, and feeling of well-being.

Successes have now been reported from the use of adrenal cortical extract in various other conditions, including neurasthenia, psoriasis, and hyperemesis gravidarum.

IN ACUTE TOXÆMIA OF BURNS—*Lancet*, 1936, June 20th, p. 1400.

Three cases of acute toxæmia from burns were treated with EUCORTONE and recovered. In two of the cases, death within a short time could have been predicted almost certainly. In the investigators' experience of these conditions, recovery under any methods of treatment previously used had not occurred. The investigators attributed the recovery in these cases with every confidence to EUCORTONE.

EUCORTONE is biologically standardized on adrenalectomized animals. **It has now been further purified and concentrated.** It is practically free from nitrogen and adrenaline, contains no irritant or toxic substance, and is sterile. **One c.cm. of the extract is equivalent to 75 grams of adrenal cortex or about 110 grams of the whole gland.**

EUCORTONE is administered intramuscularly, intravenously (in crises), and subcutaneously (in chronic cases).

TRADE **EUCORTONE** MARK

(CORTIN, A. & H.)

In rubber capped bottles of 10 c.cm., 25/- Particulars and literature on application.

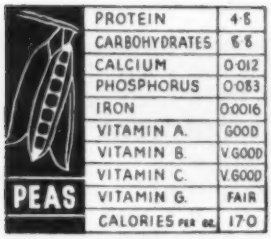
ALLEN & HANBURYS LTD., LONDON, E.2

Telephone—Bishopsgate 3201 (12 lines) Telegrams—"Greenburys Beth London."

A range of new purées

Uniformity and high nutritive qualities now available for general prescription

★



PEAS	PROTEIN	4·6
	CARBOHYDRATES	6·8
	CALCIUM	0·012
	PHOSPHORUS	0·083
	IRON	0·0016
	VITAMIN A.	GOOD
	VITAMIN B.	V. GOOD
	VITAMIN C.	V. GOOD
	VITAMIN G.	FAIR
	CALORIES PER OZ.	17·0

A typical example of the high nutritive values retained in Heinz Strained Foods. (Figures show percentages on the wet basis)

Vegetable and fruit purées, rich in mineral salts, vitamins and other soluble nutriment, constitute the perfect diet for infants and cases of nutritional anaemia.

But despite the wide approval shown by physicians, and a growing appreciation of this dietary by mothers, progress has hitherto been slow, owing to the practical difficulties encountered in home preparation.

The use of vegetables not truly fresh, mechanical losses through oxidation when boiling, and inefficient sieving out of the harsh fibres, inevitably impair the quality of the home-produced preparation.

Now, with the marketing of a range of strained foods by H. J. Heinz Co. Ltd., vegetable and fruit purées containing all necessary dietetic values are available in convenient bulk and form.

Heinz Strained Foods are prepared with all the advantages of the best factory method. The vegetables are specially grown in those areas where soil and climate combine to produce the best; they are harvested when they are just right, and cooked within a few hours of being garnered.

First, the ingredients are scrupulously cleaned. Cooking by light steam pressure in vacuum containers follows, leaving the contents perfectly disposed for comminution by extrusion, and at the same time ensuring retention of the essential juices and mineral constituents. Fine sieving having removed all fibres of a harsh or irritant nature, the purée is then adjusted to an acceptable consistency and sealed in vacuo, the sealed containers being immediately subjected to sterilization under constant conditions of time and temperature.

The purées thus offered are uniform, convenient and of the highest possible nutritive content.

NOTE: *Glass containers are not used owing to the deleterious effect of light on the value and palatability of the purées.*

HEINZ
STRAINED FOODS

SPINACH
TOMATOES
CARROTS
VEGETABLE SOUP
PEAS
GREEN BEANS
MIXED GREENS
BEETS
PRUNES
CEREAL
APRICOTS AND APPLE SAUCE

★ ***Fully explanatory literature and samples gladly sent on request.***

H. J. HEINZ COMPANY LIMITED, HARLESDEN, LONDON, N.W.10

Cadburys have perfected a

SPECIAL CHOCOLATE

which is Sugar Free and therefore a suitable addition to the dietary of diabetics

This chocolate is extremely palatable, and because Cadburys have unlimited facilities for laboratory research and the subsequent manufacture and marketing of such a product it sells at a very low price. Further details and analysis with a sample of this Special Chocolate will be gladly forwarded to anyone interested. Please write to Cadburys Laboratories, Bournville.

CADBURY BROS. BOURNVILLE ENGLAND

Why 'OVALTINE' is Supreme *for* Quality *and* Value

The most Modern Scientific Manufacturing Methods, and the World's most up-to-date Farms

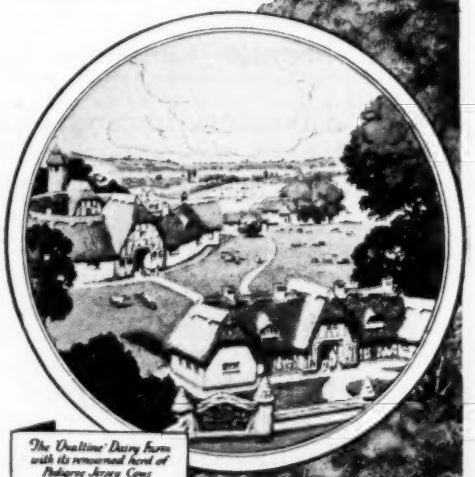
THE whole 'Ovaltine' organisation at King's Langley, Herts, is planned for ***quality*** production. At the same time, the most modern scientific methods of manufacture, coupled with a huge world-wide demand, enable 'Ovaltine' to be produced at a price which makes it definitely the most economical food beverage to buy and to use.

The famous 'Ovaltine' Egg and Dairy Farms set supremely high standards of quality for the eggs and milk used in 'Ovaltine.' Malt extract, the third important constituent, is specially prepared by the proprietors of 'Ovaltine' who are the world's largest manufacturers of medicinal malt extract.

The 'Ovaltine' Factory is an outstanding example of up-to-date scientific and hygienic efficiency. Here the constituents of 'Ovaltine' are combined by exclusive processes to produce a tonic food beverage of supreme nutritive value. These are a few of the many reasons why 'Ovaltine' stands in a class alone.

'Ovaltine' added to the diet is a simple but outstandingly effective method of raising and maintaining the standard of nutrition in young and old alike.

Prices in Gt. Britain and N. Ireland, 1/1, 1/10 & 3/3 per tin.



The 'Ovaltine' Dairy Farm with its renowned herd of Pedigree Jersey Cows

The 'Ovaltine' Egg Farm extending over 350 acres & with accommodation for 100,000 birds

Convalescence

In convalescence a tonic is required that will co-operate with, and augment, the natural recuperative powers of the body, rather than one which will have only an immediate stimulating effect. In the latter case there is always the danger of disappointment, due to an artificial improvement that the natural powers are unable to stabilise.

Medical evidence extending over many years has established the value of Sanatogen in promoting convalescence. In "The Elements of Pharmacy, Materia Medica and Therapeutics", Sir William Whitla writes:—

> "... *The interesting and valuable researches conducted by Tunnicliffe and Beddoes upon metabolism, in which Sanatogen was experimented with, establish the fact that its organic phosphorus is almost entirely assimilated when the food is administered in the amount necessary for the needs of the body. When given in addition to other food, the amount of nitrogen and phosphorus retained in the organism is increased; the tissue metabolism is more complete, the constituents of the ordinary food being more thoroughly utilised; appetite is increased and the body weight augmented.*"

Similarly gratifying observations are constantly being notified, and, as Sanatogen is entirely free from fats, sugars and carbohydrates, it can safely be prescribed in all types of cases. It is rapidly and easily digested and assimilated, even in cases exhibiting severe gastric inflammation, and for this reason it is a valuable addition to enemata. It can be added to any non-acid beverage or food, and, consequently, monotony in its administration can always be avoided.

SANATOGEN

A CHEMICAL COMBINATION OF 95% MILK CASEIN AND 5% SODIUM GLYCEROPHOSPHATE

Clinical samples and literature available on request to

GENATOSAN LTD.,
LOUGHBOROUGH,
LEICESTERSHIRE.

DOSAGE: For children and adults two teaspoonfuls three times daily, or according to circumstances. For infants, ½ teaspoonful added to each bottle feed.

Sold by all chemists
price 2/3 to 19/9

DIETARY DEFICIENCIES

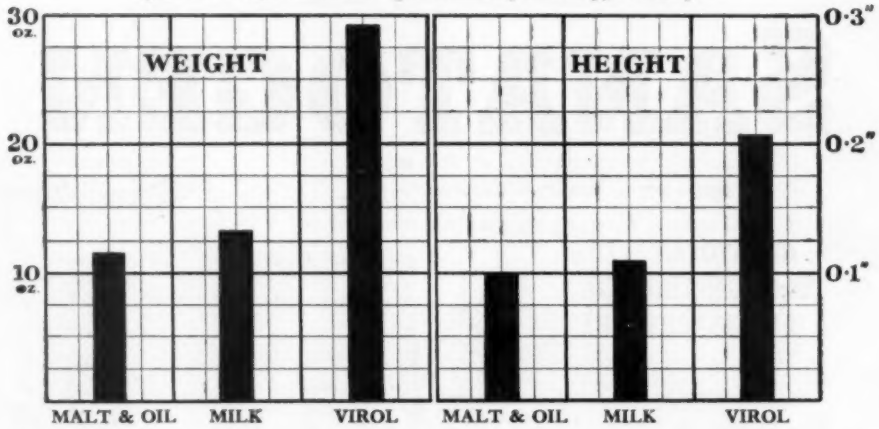
AND THEIR TREATMENT

It is widely recognised that the diet of children of school age is in general by no means complete; but that the deficiencies are of a multiple nature is not so fully appreciated.

An investigation recently published in the medical press* has shown the extent to which supplements designed to counteract such deficiencies assist growth. 864 children from schools in the North and South of England were given in turn, as additions to their ordinary home diet, either milk, or cod liver oil and malt extract B.P., or Virol, or else no supplement. Each supplement was given for one term to three-quarters (648) of the children. The daily quantities given were of equal calorific value, and the experiment lasted for one school year. The following diagrams show the additional gains in weight and height of the treated children over the controls—

Additional gain over "no supplement"

(Mean of 648 children—per school year of 39 weeks)



The superiority of the results obtained with Virol is at once evident, and demonstrates how the correction of multiple dietary deficiencies can be achieved by the use of a physiologically balanced preparation. Judged by the standard of so good a food as milk, the excellence of Virol is all the more striking. In all those children whose multiple dietary deficiencies need correction, Virol will evoke a maximum response. Only by giving a *complete* supplement is it possible to ensure this result.

* *The "Medical Press & Circular," 27th October, 1937. A reprint of the article will gladly be sent on application to Virol Ltd., Hanger Lane, Ealing, W.5.*

B.D.H. VACCINES AND SERA

An Announcement

The British Drug Houses Ltd. have pleasure in announcing that their new laboratories for the preparation of vaccines and sera are now complete.

As a result of their very recent construction, these laboratories are equipped to meet all the demands and modern advances of immunological science; in consequence, in the preparation of the B.D.H. Vaccines and Sera the most recent methods are employed, and the products supplied comply in every instance with the requirements of the Therapeutic Substances Regulations. Physicians are able, therefore, to prescribe these new B.D.H. products with the same confidence that they place in the established B.D.H. preparations.

An illustrated brochure indicating both the completeness of the laboratory equipment and the range of vaccines and sera available has been distributed; any member of the medical profession who has not received a copy is invited to apply for one.

THE BRITISH DRUG HOUSES LTD. LONDON N.1

V & S/S/15

In Convalescence after Influenza, Pleurisy, Pneumonia, Bronchitis

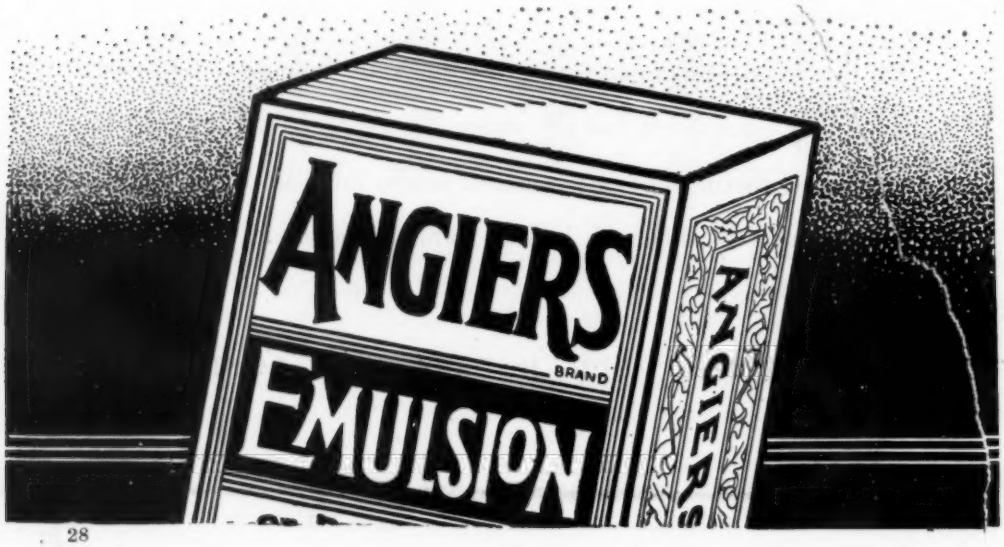
The soothing, inflammation-allaying properties of 'Angiers' and its general tonic effect especially commend its use in convalescence from acute respiratory affections. It will clear up any remaining catarrh, whether of the respiratory or digestive organs. It will restore tone to the digestive functions, and greatly improve assimilation and nutrition.

An absolutely perfect emulsion, it is presented in a form pleasing to the taste, and acceptable to the most fastidious. Moreover, it can be administered to advantage in conjunction with other remedies, such as salol, aspirin, bismuth, etc.

'Angiers' is made with petroleum specially purified for internal use. It is the original petroleum emulsion, the result of many years of careful research and experiment.

Free Samples to the Medical Profession

THE ANGIER CHEMICAL COMPANY, LIMITED
(Dept. B.6), 86, CLERKENWELL ROAD, LONDON, E.C.1.



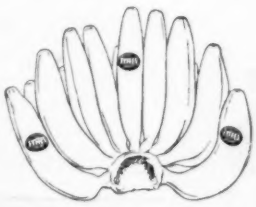
THE PHYSIOLOGICAL VALUE OF THE BANANA

III. Ash or mineral matter: The amount of ash (0.8 per cent average) is high for a fruit. It is alkaline, a point to be remembered in connection with intestinal weakness.

Small quantities of iron, copper and iodine are also present.

The iron content averages 6.4 parts per million, a satisfactory amount for a fruit. The presence of a minute amount of copper assists the due assimilation of the iron into the blood.

The trace of iodine, being more readily assimilable when normally present in a food than when added in the form of a salt, has its full beneficial action upon the thyroid gland.



N.B. **Therapeutically, the banana is most valuable when fully ripe. In the fully ripe banana the soluble sugars evolved are approximately 9 per cent. cane sugar and 4 to 5 per cent. each of glucose and fructose. A banana is ripe when all green has disappeared from the skin and brown spots have formed on the yellow surface.**

ISSUED BY ELDERS & FYFFES LTD., 31-32 BOW STREET, LONDON, W.C.2

COD LIVER OIL

is the only Liver Oil with a pedigree of proved achievement behind it

.. now available in a

PALATABLE, HIGH-POTENCY FORM

The study of Vitamins A and D originated through research into the value of Cod Liver Oil as a builder of constitution—sufficient proof of its long standing as a nutritive food. Cod Liver Oil contains nature's Vitamins A and D in their right proportion. That is why it is specifically recommended by the Ministry of Health and the League of Nations Nutrition Committee. Only its general character has been against it in the past but now we have got over this difficulty. We have produced in "SevenSeaS," for the first time, a Cod Liver Oil of fresh pleasant flavour in high potency form.

"SevenSeaS" is obtainable in three forms: (1) High Potency Oil—four times B.P. standard; (2) High Potency Capsules containing 5 mm. dose of High Potency Oil; (3) Standard B.P. Oil. We would like all practitioners to prove "SevenSeaS" High Potency Cod Liver Oil to their own satisfaction. Please send to the address below for a free sample.

PRICES:

HIGH POTENCY OIL (*you only need 5 drops*) -	**1/3**	*bottle*
HIGH POTENCY CAPSULES (25 *Capsules*) -	**1/6**	,,
,, ,, ,, (50 ,,) -	**2/9**	,,
,, ,, ,, (100 ,,) -	**5/-**	,,
"*B.P.*" *STANDARD OIL* - - -	**10d. & 1/3**	,,

From all chemists, including Boots, Timothy Whites & Taylors, etc., etc.

SEVENSEAS
COD LIVER OIL

BRITISH COD LIVER OIL PRODUCERS (HULL) LTD., ST. ANDREW'S DOCK, HULL, ENGLAND

FOUR POINTS in the medical treatment of hæmorrhoids are of utmost importance: the rectal suppository must be therapeutically effective and safe to use under any circumstances; it must be devoid of accessory or systemic effects; it must be easy and convenient to use. How well Anusol Brand Hæmorrhoidal Suppositories fulfil these requirements you have probably found by first hand experience. If not, a trial supply of Anusol Suppositories for use in any case under treatment will be gladly sent on request.

WILLIAM R. WARNER & CO. LTD., POWER ROAD, CHISWICK, LONDON, W.4

ANUSOL

Also supplied in ointment form in collapsible tube with nozzle.

GONAD STIMULATION THERAPY IN MENSTRUAL DISORDERS

ANTOSTAB

Supplied in boxes containing ampoules of 100 mouse units, together with ampoules containing 1 c.c. of 0.90% Sodium Chloride Solution as a solvent for Antostab. Single ampoules and boxes of 6 ampoules.

ANTOSTAB is prepared from pregnant mares' serum and contains the follicle-stimulating factor which has a definite effect on the ovaries and in producing endometrial proliferation.

Clinical reports published in the *British Medical Journal*, 1937, November 6th, page 904, show that in cases of amenorrhoea, the menstrual cycle may be re-established by treatment with Antostab and that following treatment the menstrual rhythm continues normally.

PHYSOSTAB

Supplied in boxes containing ampoules of 100 mouse units, together with ampoules containing 1 c.c. of 0.90% Sodium Chloride Solution as a solvent for Physostab. Single ampoules and boxes of 6 ampoules.

PHYSOSTAB is prepared from human pregnancy urine and contains the luteinising hormone.

It is of value during the second half of the menstrual cycle when it stimulates the production of corpora lutea.

Successful results have been obtained with Physostab in the treatment of undescended testicles and of dystrophia adiposogenitalis.

LITERATURE SENT ON REQUEST

WHOLESALE & EXPORT DEPT.

BOOTS PURE DRUG CO. LTD.

NOTTINGHAM • ENGLAND

Measles Control with

IMMUNE GLOBULIN (HUMAN)

Lederle

BECAUSE of the frequency of complications, the mortality rate of measles is high—higher than that for whooping cough, diphtheria and scarlet fever.

Complications can be avoided by the use of IMMUNE GLOBULIN (HUMAN) *Lederle*, particularly those of broncho-pneumonia—responsible for about 50% of deaths in the infant age group (6 months to 3 years).

As a modification dose, one injection of 2 cc. is administered to patients in the infant age group from 6 to 8 days after exposure (for children in the same family this is 2 to 4 days after the appearance of rash in the exposing child). This dosage confers an active and lasting immunity in the majority of cases. For passive immunity of several weeks, a first dose of 2 cc. of IMMUNE GLOBULIN (HUMAN) *Lederle* is administered as soon as contact has been recognized; a second dose of 2 cc. four days later.

IMMUNE GLOBULIN (HUMAN) *Lederle* is distributed in 2 cc. vials and 10 cc. vials.

Chas. F. Thackray LTD

The Old Medical School **LEEDS**

Telegrams and Cables "Aseptic Leeds" *Telephone* 20085 (3 lines)

252 Regent Street **LONDON W I**

Telephone, Telegrams and Cables "Regent 1884 London"

RESEARCH, CONSTANT RESEARCH

continues to improve the quality of Mead's Brewers Yeast★ in the following respects, without increased cost to the patient:

1. Vitamin B_1 potency raised to not less than 25 International (50 Sherman) units per gram.
2. Bottles now packed in light-proof cartons, for better protection.
3. Improved bacteriological control in harvesting and packing.
4. **And NOW, since August 1, 1936, all bottles are packed in vacuum. This practically eliminates oxidation. Mead's Yeast stays fresh longer, as you can tell by its improved odour and flavour!**

★ A dietary accessory for normal persons, for the prevention and treatment of conditions of partial or complete deficiencies of vitamins B_1 and G, as in beri-beri, pernicious vomiting of pregnancy, anorexia of dietary origin, alcoholic polyneuritis, pellagra.

Mead's Brewers Yeast Tablets in bottles of 80 and 250. Mead's Brewers Yeast Powder in 6 oz. bottles. Not advertised to the public. Sample to physicians, on request.

BROOKS & WARBURTON, Ltd., 232-240, Vauxhall Bridge Road, London, S.W.1

MEAD JOHNSON & COMPANY, Evansville, Ind., U. S. A.

STREPTOCIDE

(*p-aminobenzenesulphonamide Evans*)

For oral administration

The value of STREPTOCIDE in

PUERPERAL FEVER

is fully described in a report to the THERAPEUTIC TRIALS COMMITTEE
(*vide* LANCET, Nov. 27th, 1937)

OTHER INDICATIONS INCLUDE :

ERYSIPELAS
TONSILLITIS
STREPTOCOCCAL SORE THROAT
B. COLI AND GONORRHŒAL INFECTIONS OF GENITO-URINARY TRACT

STREPTOCIDE is issued in tablets as follows :—

	0.5 grm. (7½ grains)	0.25 grm. (3¾ grains)
In bottles of 25 Tablets	2/3	1/9
" 100 "	7/9	5/6
" 250 "	18/-	12/6

Streptocide is available also for topical application as

STREPTOCIDE OINTMENT

(*contains 5% of p-aminobenzenesulphonamide Evans*)

Issued in 2-oz. collapsible tubes - - 2/- each

Made in England at
EVANS BIOLOGICAL INSTITUTE
by

Evans Sons Lescher & Webb Ltd.
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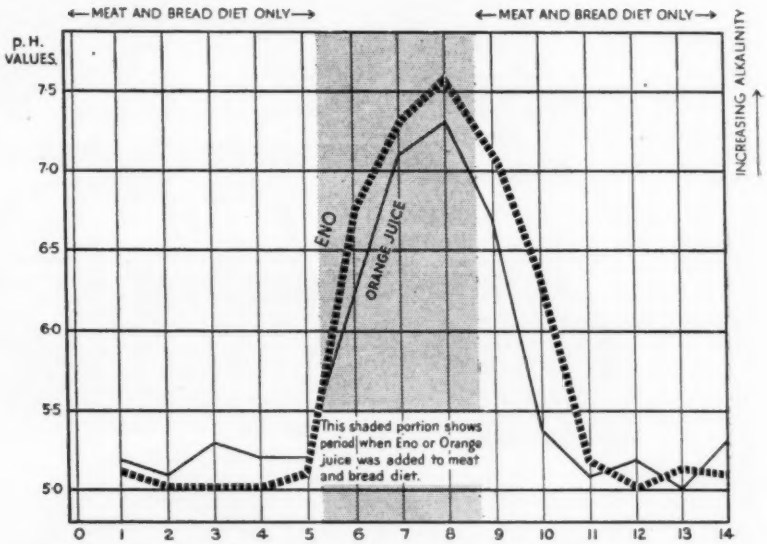

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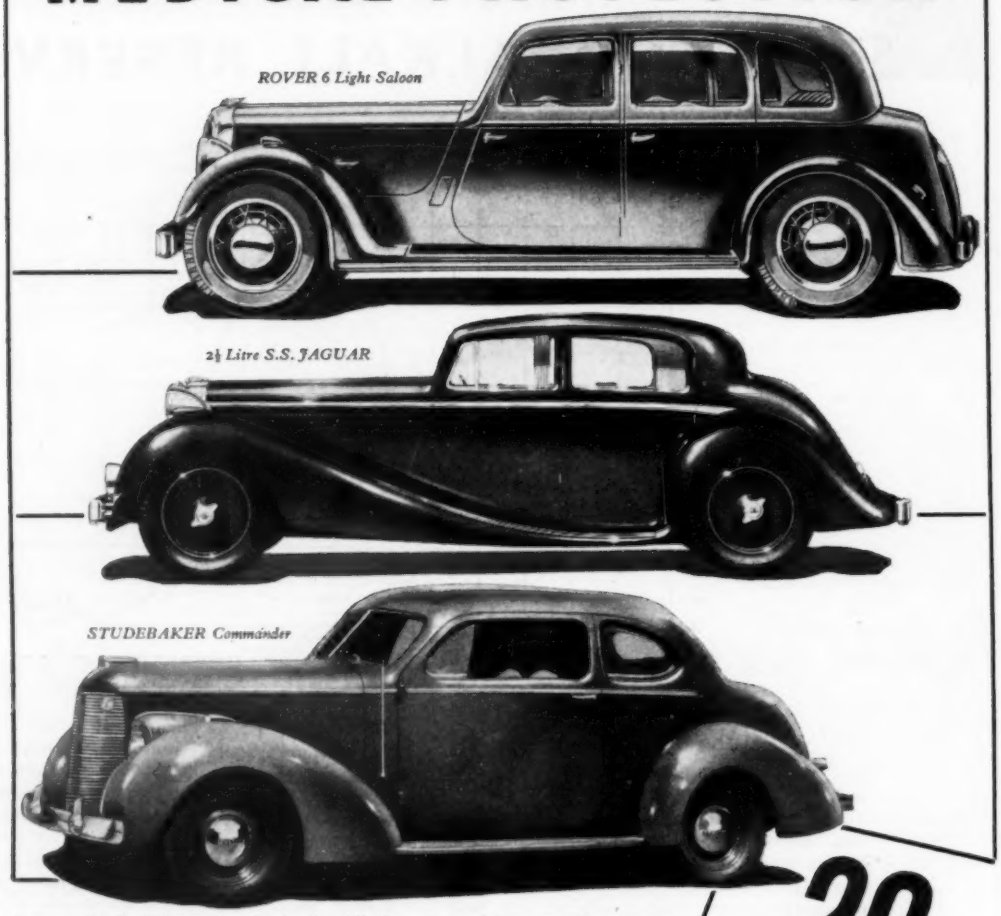

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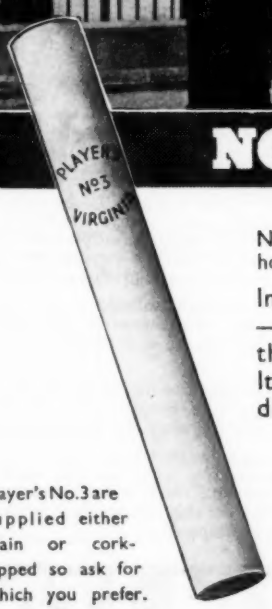

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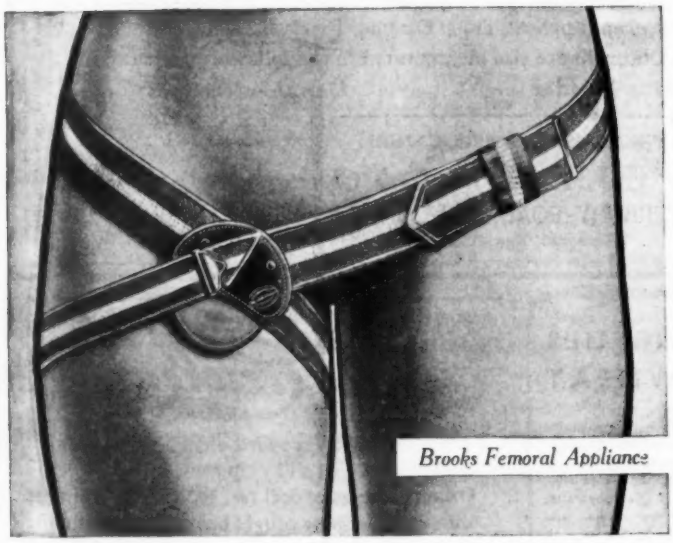

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The weekly fees are from 15 guineas according to the room occupied; rooms with bathroom are from 21 guineas. The charges include all chemical, bacteriological, X-ray or other examinations advised by the doctors, and all the usual forms of treatment, in addition to board and lodging. There are no extra charges except for alcohol (when ordered) and laundry.

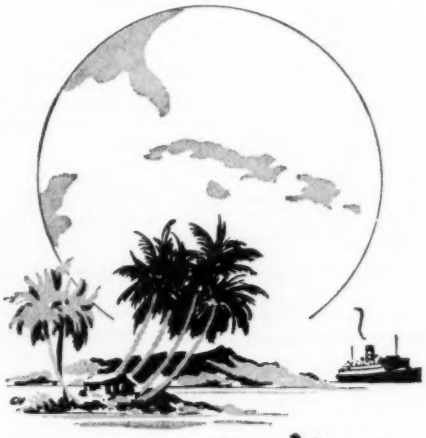
An examination and consultation fee of 15 guineas is charged on the first visit.

The climate is mild. The annual rainfall is 30·5 inches, that is, less than the average for England. There is central heating throughout.

Address—THE SECRETARY, Ruthin Castle, North Wales.

Telegrams: Castle, Ruthin. *Telephone:* Ruthin 66.

Sunshine — East & West



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Nearly two months in the brilliant warmth and sunshine of 14 fascinating ports

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A month's leisurely cruising at the height of the gay and fashionable spring season

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Spend the winter in some of the fascinating sun-bathed resorts of the New World—Nassau, Bermuda, Jamaica, Florida, California. Through bookings via New York, connecting with sailings of the "Queen Mary," "Aquitania," "Berengaria," or other luxurious Cunard White Star liners.

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Centre of Research and Medico-Psychological Treatments

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Carefully discriminated and graduated treatments of all nervous and mental affections. Happy environment, magnificent country, temperate climate.

Pathopsychological Institute annexe (Pupillography, &c.). Villa for abnormal children.

Head Physician : Dr. W. BOVEN, Professor of Psychiatry and Characterology at the University of Lausanne. (Consultation-room at Lausanne, by appointment ; Tel. : Lausanne 25,838.)

Collaborators : Dr. O. Löwenstein, formerly Professor at the University of Bonn, inventor of the pupillographic method. Madame Dr. Calame.

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20 Devonshire Place
London, W.1

Tel.: Welbeck 4444 (20 lines)

A NURSING HOME FOR SURGICAL, MEDICAL AND MATERNITY CASES

Fees 10 gns. to 18 gns. per week (Average—14 gns.).
8 Operating Theatres.
150 State Registered Nurses.
2 Resident Medical Officers (for emergencies).

Patients only received under the supervision of their own Medical Practitioner.

Drugs and Dressings free (other than Proprietary Articles).
Illustrated Brochure on application to Secretary.

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Unrivalled suites of Baths, Turkish and Russian Baths, Aix and Vichy Douches, Massage: Plombières Treatment, Studs Chair, and Electric Installation for Baths and other Medical purposes, Dowsing Radiant Heat, Infra Red Light, Artificial Sunlight, d'Arsonval High Frequency, Diathermy, Nauheim Baths, Soapless Foam Baths, etc. "Certified" Milk from own farm. Large winter garden. Orchestra. Special provision for invalids. Night attendance. Over 60 trained Male and Female Nurses, Masseurs, Attendants, etc.

Resident Physicians : G. C. R. HARRINSON, M.B., B.Ch., B.A.O.(R.U.I.). R. MACLELLAND, M.D., C.M.(Edin.). **TERMS, 13s. to 18s. per day, inclusive of board.**

Illustrated Brochure C.J. and full information on request.

Telephone—No. 17 (3 lines). *Telegrams*—Smedleys, Matlock.

Telegraphic Address : "Relief, Old Catton." Telephone: 290 Norwich.

NERVOUS & MENTAL AFFECTIONS

Ladies only received

The Grove, Old Catton, Norwich.

A High-class Home for the Curative Treatment of Nervous Affections. Voluntary Boarders are also received without certificates.

For full particulars apply to the Misses McLINTOCK or to Dr. S. BARTON, 34, Surrey-street, Norwich, Visiting Physician.

RUSSELLS

HEMEL HEMPSTEAD ROAD, WATFORD

Telephone : WATFORD 5917

This new convalescent home has just been opened for the care and treatment of mild and recoverable mental and nervous conditions in both sexes.

The house is situated high up, in 40 acres of beautiful grounds, 17 miles from London. One Lady Doctor is in residence, and another specialist in psychological medicine is in daily attendance. Fees from ten guineas a week, inclusive.

Apply : RESIDENT MEDICAL OFFICER.

THE WARNEFORD, OXFORD.

HOSPITAL FOR MENTAL DISORDERS.

President : The Right Hon. the LORD SAYE AND SELE.

This Registered Hospital for the Treatment and Care, at moderate charges, of Mental Patients belonging to the educated classes, stands in a healthy and pleasant situation on Headington Hill, near Oxford. Voluntary and Temporary Patients are also received for treatment. The adjacent estate of HIGHFIELD PARK has recently been acquired and the house, which has been modernised and equipped with every comfort, is now available for mild and convalescent patients. Private suites can be arranged.

For further particulars apply to the Physician-Superintendent.

MALLING PLACE, KENT

For LADIES and GENTLEMEN of Unsound Mind

Terms moderate : Apply to Resident Medical Superintendent. Telegrams: ADAM WEST MALLING. Telephone: No. 2 MALLING.

Grove House, All Stretton, Church

STRETTON, SHROPSHIRE.

A PRIVATE HOME for the care and treatment of a limited number of Ladies Mentally Afflicted.

Climate healthy and bracing.

Apply to Dr. McCLINTOCK, Proprietor and Resident Medical Superintendent.

STRETTON HOUSE,

Church Stretton, Shropshire.

A PRIVATE HOME for the treatment of gentlemen suffering from Mental and Nervous illness, including the allied Disorders of Alcoholism and the Drug Habit. All types of early Mental and Nervous Cases are received without Certificates as Voluntary Boarders. Bracing hill country. See "Medical Directory," p. 2328.—Apply to Medical Superintendent. 'Phone 10 P.O., Church Stretton.

FENSTANTON

Christchurch Road, Streatham Hill, S.W.2

A Private Home for the Treatment of LADIES with Mental and Nervous Disorders. Psycho-Therapy, Physio-Therapy, &c. 12 acres of grounds

Apply : **Dr. MADELINE R. LOCKWOOD,**
phone : TULSE HILL 7181 *Resident Physician Superintendent.*

HOME FOR EPILEPTICS

MAGHULL (near LIVERPOOL)

FARMING and OPEN AIR OCCUPATION for PATIENTS

A few vacancies in 1st and 2nd Class Houses.

FEES : 1st Class (men only) from £3 p.w. upwards.
2nd Class (men and women) 32/- p.w.

For further particulars apply :

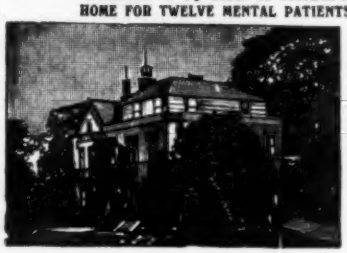
C. EDGAR GRISEWOOD, A.C.A., Secretary,
20, Exchange Street East, Liverpool, 2

CLARENCE LODGE

CLAPHAM PARK, LONDON

Situated in 3½ acres of secluded gardens.

HOME FOR TWELVE MENTAL PATIENTS (LADIES).



Well-appointed private house. Home comforts and Trained Nursing Staff. Eminent Mental Specialist. Visiting Physician.

Station : Clapham Common Tube.

Phone : Tulse Hill 4913

Apply MISS THWAITES.

HILL END HOSPITAL AND CLINIC

FOR THE PREVENTION AND TREATMENT OF MENTAL AND NERVOUS DISORDERS

(20 miles from London)

Ladies suffering from all forms of MENTAL ILLNESS are received for treatment, on modern lines, as Voluntary, Temporary or Certified Private Patients at the Hill End Hospital. Convalescent or mild cases can be treated in a delightful country mansion, with extensive grounds, known as

HIGHFIELD HALL,

situate about a mile away from the Hospital.

FEES TWO TO THREE GUINEAS PER WEEK.

For further particulars apply to the Medical Superintendent. W. J. T. KIMBER, L.R.C.P., D.P.M.

ST. ALBANS, HERTS

LITTLETON HALL, BRENTWOOD, ESSEX

(18 MILES FROM LONDON.)

400 feet above sea.

HOME for few LADIES Mentally Afflicted. Large grounds. Liverpool st. 26min. Stations Brentwood, Shenfield, one mile. Boarders received. Apply Dr. Haynes Telephone and Telegrams: Haynes Brentwood 45.

University of London.—The Senate

invite applications for the UNIVERSITY CHAIR OF SURGERY tenable at UNIVERSITY COLLEGE HOSPITAL MEDICAL SCHOOL. Salary £2000 a year. Applications (twelve copies) must be received not later than first post on 20th January, 1938, by the Academic Registrar, University of London, W.C.1, from whom further particulars should be obtained.

Victoria Hospital for Children,

Tite-street, Chelsea, S.W.3.

Applications are invited for the post of OPHTHALMIC SURGEON. Candidates must be Fellows of the Royal College of Surgeons of England and are expected to call on Members of the Medical Staff.

Applications, with copies of testimonials, are to be sent to the Secretary at the Hospital on or before Saturday, the 15th January, 1938.

D. ST. JOHN BAMFORD, Secretary.

Victoria Hospital for Children,

Tite-street, Chelsea, S.W.3.
(138 Beds.)

The Committee of Management invite applications for the posts of

(*a*) HOUSE PHYSICIAN,
(*b*) HOUSE SURGEON,

both vacant 1st February, 1938. The appointments are for six months. Salaries at the rate of £100 per annum, with board, lodging, and washing.

(*c*) OUT-PATIENT ANÆSTHETIST.

To attend on three half-days a week. A payment of 10*s*. 6*d*. per attendance will be made.

Applications, with copies of three recent testimonials, should be sent to the Secretary not later than first post on Tuesday, 11th January, 1938.

D. ST. JOHN BAMFORD, Secretary.

The Infants Hospital,

Vincent-square, Westminster.

The Committee of Management invite applications for the post of RESIDENT MEDICAL OFFICER.

Candidates must have held previous resident Hospital appointments for not less than six months, and must have had Pædiatric experience. The appointment is for one year from March 1st, with eligibility for re-appointment. Salary £300 per annum, with board, lodging, and laundry.

Candidates are expected to call upon, and send a copy of application and testimonials to, each member of the Honorary Medical and Surgical Staff.

Applications, with copies of testimonials, should be sent not later than January 29th to the undersigned, from whom copies of the rules may be obtained.

ALFRED J. SMALL, Secretary.

St. Thomas's Hospital. — Vacancy.

An ASSISTANT PHYSICIAN to DEPARTMENT OF PSYCHOLOGICAL MEDICINE.

Applications, with full details of academic career and copies of testimonials, to be sent to Clerk to the Governors by the 22nd January.

The National Temperance Hospital,

Hampstead-road, London, N.W.1.

Applications are invited for the post of MEDICAL REGISTRAR, which will become vacant on 1st February, 1938. Candidates must be Graduates in Medicine of a university of the United Kingdom, or a Member of the Royal College of Physicians of London. Honorarium 40 guineas.

Candidates, accompanied by not more than three testimonials, to be addressed to the Secretary by January 19th.

The National Temperance Hospital,

Hampstead-road, London, N.W.1.

Applications are invited for the post of HONORARY ANÆSTHETIST. The successful candidate will be required to attend on Thursday mornings and in cases of emergency. Thirty copies of application, giving full particulars, together with copies of not more than three recent testimonials, should be sent to the Secretary by January 19th.

Candidates will be required to call upon members of the Honorary Staff.

East Ham Memorial Hospital,

Shrewsbury-road, E.7. (100 Beds.)

Applications are invited for the post of RESIDENT MEDICAL OFFICER (Male). Duties to commence on 1st February, 1938. The appointment will be for six months in the first instance, but the successful candidate will be eligible for reappointment. Salary at the rate of £200 per annum, with board, residence, and laundry. Preference will be given to candidates who hold the Diploma of F.R.C.S.

Applications, stating age, nationality, experience, and full particulars, together with copies of three testimonials, should reach the undersigned by 13th January.

REGINALD PERRY, Secretary.

Royal Air Force—Dental Branch.

TEMPORARY CIVILIAN APPOINTMENTS.

Vacancies exist at certain Royal Air Force Stations for temporary appointments as Whole-time CIVILIAN DENTAL SURGEONS. Preference will be given to applicants under thirty years of age.

Further information may be obtained by applying to the Secretary, Air Ministry (D.M.S.), Adastral House, Kingsway, W.C.2.

West End Hospital for Nervous DISEASES.

In-patient Department, Gloucester-gate, Regent's Park, N.W.1.
Out-patient Department, 73, Welbeck-street, W.1.

The Committee of Management invites applications for the following vacancies:—

REGISTRAR, Out-patient Department. British Male candidates. Remuneration £200 per annum. Duties include afternoon attendance at the Out-patient Department five days a week. Candidates must have neurological experience.

Two RESIDENT HOUSE PHYSICIANS (Male). Duties to commence March 1st, 1938. Salary at the rate of £125 per annum, with board, residence, and laundry. Preference will be given to candidates who have held a resident appointment in a General Hospital.

HONORARY MEDICAL PSYCHOLOGISTS. Candidates (Male and Female) having previous experience are required for appointment in the Child Guidance Department (Out-patient Department).

Further information in regard to any of the above appointments can be obtained from the undersigned at the address below, to whom applications, stating experience, together with copies of three recent testimonials, must be sent not later than Wednesday, January 19th. Candidates for the Registrarship are requested to send twelve copies of their application and testimonials.

J. P. WETENHALL, Secretary and House Governor.
73, Welbeck-street, W.1.

London Jewish Hospital,

Stepney Green, E.1.
General Hospital. 109 Beds.

Applications are invited for the post of SURGICAL REGISTRAR. Honorarium at the rate of sixty guineas per annum.

Particulars of the appointment can be obtained from the Secretary, to whom candidates must send ten copies of their applications, with copies of three recent testimonials, not later than Friday, 21st January, 1938.

Hampstead General and North-West

LONDON HOSPITAL, Haverstock Hill, N.W.3.

APPOINTMENT OF HOUSE PHYSICIAN.

Applications are invited from unmarried Medical Men for the appointment of House Physician, vacant on February 1st next. The salary will be at the rate of £100 per annum, together with board, residence, &c., and the term will be for six months.

Applications to be made on a form which will be supplied by the Secretary, together with copies of not more than three testimonials, should reach the Secretary not later than noon on January 15th next.

ROYAL NAVAL MEDICAL SERVICE

Vacancies exist for MEDICAL OFFICERS in the Royal Navy, and applications are invited for entry in April, 1938.

Candidates below the age of 28 years are preferred and they must be registered under the Medical Acts. No examination in professional subjects will be held but candidates will be required to attend for interview by a Selection Board.

Selected candidates will be entered for Service for a period of three years in the first instance, which may be extended to five years at the discretion of the Admiralty.

At the end of three years' service officers may retire with a gratuity of £400, but those who serve for five years will receive £1,000.

At the end of five years' Short Service permanent commissions will be given to selected officers who wish to make the Naval Medical Service their permanent career. Officers transferred to the permanent list will receive a gratuity of £1,000 (less Income Tax).

Opportunities are available for officers on the permanent list to specialise, and ample provision is made for Post-graduate study.

Copies of the regulations for entry and conditions of Service, including rates of pay and allowances, may be obtained from the Medical Director-General of the Navy, Admiralty, S.W.1, and from the Deans of all Medical Schools.

Applications for entry from intending candidates must be received not later than 28th February, 1938.

HIS MAJESTY'S COLONIAL SERVICE

COLONIAL MEDICAL SERVICE

During 1938 the Secretary of State for the Colonies proposes to select a number of **MEDICAL OFFICERS** to fill vacancies, the majority of which will occur in **TROPICAL AFRICA** or in **MALAYA.**

QUALIFICATIONS.

Candidates must be British subjects of European parentage, under 35 years of age, and must possess a medical qualification registrable in the United Kingdom. Preference will be given to candidates who have held Hospital or Public Health appointments, or who have special knowledge of anæsthetics, radiology, surgery, medicine, ophthalmology, gynæcology and midwifery, diseases of the ear, nose, and throat, venereal diseases, &c.

SALARY.

Initial salaries vary from £600 to £700, and rise by increments to a maximum of between £1000 and £1200.

PRIVATE PRACTICE.

Private practice is not allowed as of right, but in the case of some appointments it is permitted on certain conditions.

QUARTERS.

In Tropical Africa, free quarters, or an allowance in lieu, are provided. In Malaya, quarters are provided at an annual rental not exceeding 6 per cent. of the officer's salary.

PASSAGES.

Free first-class passages are provided on first appointment and when proceeding on and returning from leave. Assistance is also given towards family passages.

TERMS OF APPOINTMENT.

The appointments are pensionable, subject to a probationary period which varies from two to three years.

COURSES OF INSTRUCTION IN TROPICAL MEDICINE and HYGIENE.

Selected candidates will normally be required to attend a course of instruction leading to the Diploma in Tropical Medicine and Hygiene before proceeding overseas.

DUTIES.

Although Medical Officers are appointed in the first instance for general service, there are opportunities for work in special branches of medicine and surgery, in public health, and in medical research.

Further particulars and forms of application may be obtained from the DIRECTOR OF RECRUITMENT (Colonial Service), 2, Richmond-terrace, Whitehall, London, S.W.1.

The Royal Cancer Hospital (Free)

(Incorporated under Royal Charter),
Fulham-road, London, S.W.3.

Applications are invited for the post of RESIDENT MEDICAL OFFICER to commence duties on the 1st February, 1938.

The appointment is for twelve months at a salary of £200 per annum, together with board, residence, and laundry. At the end of this period re-appointment for a further twelve months may be applied for.

Applications, to be made on a form which will be supplied by the Secretary, with copies of not more than three recent testimonials, to be sent to the Secretary not later than the first post on the 13th January, 1938. CLEMENT COBBOLD, Secretary.

London Hospital, E.1.

There is a vacancy for the post of FIRST ASSISTANT to the Department of Thoracic Surgery. Candidates must be Fellows of the Royal College of Surgeons (England).

The appointment is half-time and for one year. Salary £150 per annum.

Applications should be made to the House Governor, and should arrive not later than Saturday, February 12th.

ARTHUR G. ELLIOTT, House Governor.

London Hospital, E.1.

Applications are invited for the post of MEDICAL FIRST ASSISTANT AND REGISTRAR. The appointment is for one year, but is renewable annually on application for two further periods of one year. Salary £300 per annum payable by the Hospital and Medical College jointly.

Candidates must be fully qualified medically.

Applications should arrive at the Hospital not later than by the first post on Saturday, February 12th.

ARTHUR G. ELLIOTT, House Governor.

Bolingbroke Hospital, Wandsworth Common, S.W.11.

(135 Beds.)

HOUSE PHYSICIAN (Male, unmarried) required. The appointment is for six months, commencing on the 1st February, 1938. Salary £120 per annum, with board, residence, and laundry.

Candidates must be fully qualified and registered.

Applications, stating age, qualifications, and experience, with copies of not more than three testimonials, should be sent to the undersigned on or before January 12th, 1938.

W. S. RANDOLPH BISS, Secretary-Superintendent.

Metropolitan Borough of Islington.

APPOINTMENT OF ASSISTANT MEDICAL OFFICER.

The Council invite applications from members of either sex whose age must not exceed forty years for the appointment of an Assistant Medical Officer whose duties will consist mainly of maternity and child welfare work to be carried out under the direction of the Medical Officer of Health. The duties will include certain administrative work in the wards of two voluntary Welfare Centres, clinical work at the Council's Day Nursery, artificial sunlight treatment, diphtheria immunisation clinics, and such other duties in connection with maternity and child welfare and public health as may be required by the Council.

Candidates must be registered Medical Practitioners with the Diploma of Public Health or Degree of Sanitary Science. They must also possess special children's and infants' experience and knowledge of the treatment of nutritional disorders of infancy, and previous experience of maternity and child welfare work, ultra-violet light therapy and diphtheria immunisation.

The salary for the appointment will be at the rate of £600 per annum, rising by annual increments of £25 to £750 per annum. The candidate appointed will be required to devote whole time to the duties of the office and will not be allowed to practise privately. The appointment will also be subject to the rules and regulations of the Council from time to time in force relating to their officers.

Applications, accompanied by copies of not more than three recent testimonials, on forms to be obtained from the undersigned, must be delivered at the address stated below not later than Wednesday, 26th January, 1938, endorsed "Appointment of Assistant Medical Officer."

Canvassing, directly or indirectly, will disqualify.

W. ERIC ADAMS, Town Clerk.

Town Hall, Upper-street, N.1. 30th December, 1937.

The Hospital for Sick Children,

Great Ormond-street, London, W.C.1.

Applications are invited from registered Medical Practitioners for the post of CASUALTY MEDICAL OFFICER (salary £175 per annum). Duties to commence on the 7th February, 1938.

The appointment is a half-time one and non-resident, tenable in the first instance for six months.

Applications must be received by noon on Monday, the 31st January, 1938, and candidates must be prepared to attend for interview at the Hospital on Wednesday, 2nd February, 1938, at 4.45 P.M.

Full details of the appointment and forms of application are obtainable from the undersigned.

January, 1938. HERBERT F. RUTHERFORD, Secretary.

LONDON HOSPITAL MEDICAL COLLEGE

F.R.C.S.

A course of instruction for the FINAL FELLOWSHIP EXAMINATION will begin on Monday, 21st February, 1938. Fees (exclusive of Operative Surgery) twenty-five guineas. Operative Surgery ten guineas.

Further particulars may be obtained from

Dr. A. E. CLARK-KENNEDY, M.D., F.R.C.P., Dean.

London Hospital Medical College, Turner-street, London, E.1.

Royal National Orthopædic Hospital.

Applications are invited for the posts of HOUSE SURGEON (Two, Male, unmarried) at this hospital's COUNTRY BRANCH AT BROCKLEY HILL, STANMORE, MIDDLESEX. 278 Beds (160 cases of surgical tuberculosis).

Salary £150 per annum, with board, quarters, and laundry. The appointments are for six months. Duties to commence, one on February 1st and one on March 1st.

Applications, with copies of testimonials, should be sent to the Secretary, 234, Great Portland-street, London, W.1, not later than January 18th.

National Temperance Hospital,

Hampstead-road, N.W.1.

Applications are invited for the post of HONORARY OPHTHALMIC SURGEON. Candidates should be Fellows of the Royal College of Surgeons of England or Masters in Surgery of the University of London. Thirty copies of application, giving full particulars, with copies of three recent testimonials, should be sent to the Secretary by Thursday, January 20th, 1938.

Candidates will be required to attend the meeting of the Medical Committee held on Tuesday, January 25th, at 9 P.M.

Royal Masonic Hospital,

Ravenscourt Park, W.6.

A post of RESIDENT SURGICAL OFFICER (Male), one of three Residents, will be vacant on 1st March, 1938. Salary at the rate of £250 per annum, with board, residence, and laundry. The appointment is for six months. Candidates must be registered, and must have held resident appointments at a general hospital. The Institution (145 Beds at present, but to be increased) is primarily for paying patients of both sexes of moderate means usually unable to afford ordinary Nursing Home treatment, &c.

Applications, stating full particulars, to be sent on or before 24th inst., to the Honorary Secretaries, from whom further information may be obtained.

King's College Hospital.

The Committee of Management invite applications for the post of ASSISTANT PHYSICIAN.

Applications, with copies of three testimonials, should be sent before January 22nd, 1938, to the House Governor, King's College Hospital, Denmark-hill, S.E.5, from whom particulars of the duties may be obtained. Candidates must be Members or Fellows of the Royal College of Physicians of London.

Charing Cross Hospital.

RESIDENTIAL HOUSE ANÆSTHETIST AND ASSISTANT CASUALTY OFFICER.

Applications are invited for the above post.

Salary £150 per annum, with full board, laundry, &c.

Candidates (Male) must be fully qualified.

Applications, together with copies of three recent testimonials, should be submitted to the undersigned not later than first post on Wednesday, January 12th, 1938.

GEORGE J. JONES, Secretary.

London County Council.

Applications invited from Medical Practitioners with appropriate qualifications for five appointments as ASSISTANT PATHOLOGIST in the Council's Pathological Service. Salary £650–£25–£800. Four of the appointments will be in Group Laboratories, and candidates should have special experience in one or more branches of pathology in relation to the diagnosis and treatment of disease. The fifth is at the Central Histological Laboratory. Experience in morbid histology and post-mortem work is essential.

Forms of application and further particulars (stamped addressed foolscap envelope necessary) from Medical Officer of Health (Staff Division 2), County Hall, Westminster Bridge, S.E.1, returnable by 17th January, 1938.

Canvassing disqualifies.

Poplar Hospital for Accidents,

East India Dock-road, Poplar, E.14.

The committee invites applications for the appointment of SECOND RESIDENT OFFICER (Male) at a salary at the rate of £175 per annum, all found.

Candidates must have held appointments as House Surgeon at a Hospital.

Applications must be accompanied by a statement of the candidates' qualifications and forwarded to the Secretary, with three recent testimonials, not later than Tuesday, January 18th, 1938. The appointment is for a period of six months.

Evelina Hospital for Sick Children,
Southwark, S.E.

Applications are invited for the post of HOUSE PHYSICIAN (Male) for six months from the 12th February, 1938 (first two months in the Casualty Department). Salary at the rate of £120 per annum, with board and residence.

Applications, with copies of three recent testimonials, should be sent to the undersigned, from whom particulars can be obtained, not later than first post on the 19th January.

W. H. SIDNELL, House Governor.

The Belgrave Hospital for Children,
Clapham-road, S.W.9.

The Committee of Management invite applications for the post of ASSISTANT PHYSICIAN. Candidates must be Graduates in Medicine of an English University and Fellows or Members of the Royal College of Physicians of London. There is an honorarium of 50 guineas per annum attached to the post.

Applications, with copies of testimonials, must be delivered to the undersigned by Tuesday, February 1st, from whom further information may be obtained.

By order.

THOMAS CLAPHAM, Secretary.

Golden Square Throat, Nose, and Ear
HOSPITAL, London, W.1.

HOUSE SURGEON (Male) required to commence duties March 1st. Salary £100 per annum, with board, residence, and laundry.

Applications, stating age, qualifications, and experience, together with copies of three recent testimonials, to be sent to the undersigned on or before January 19th.

F. P. CARROLL, Secretary-Superintendent.

Borough of Ealing.

OPHTHALMIC SURGEON.

Applications are invited from registered Medical Practitioners of recognised consultant and specialist status in ophthalmology for the position of Ophthalmic Surgeon in connexion with the Council's Health Centres. The successful applicant will be required to attend on three sessions a week during 40 school weeks, or 120 sessions in the year, for the purpose of examining and advising patients referred to him by the medical staff of the School Medical and Maternity and Child Welfare Services.

The remuneration will be £275 per annum.

Canvassing will be a disqualification.

Forms of application and copies of terms of appointment may be obtained from Dr. Thomas Orr, Medical Officer of Health, Town Hall, Ealing, W.5, to whom applications, accompanied by three recent testimonials and endorsed "Appointment of Ophthalmic Surgeon," must be delivered not later than the 20th January.

R. H. WANKLYN, Town Clerk.

Town Hall, Ealing, W.5.

Borough of Ealing.

ASSISTANT MEDICAL OFFICER OF HEALTH,
RESIDENT ASSISTANT MEDICAL OFFICER.

Applications are invited for the above appointments from duly qualified Medical Men with a Public Health qualification.

ASSISTANT MEDICAL OFFICER (Man).

A candidate must have had at least three years' experience in the practice of his profession. The person appointed will be required to carry out medical inspection of school-children and child welfare work and perform such other duties as may be allotted as Assistant to the Medical Officer of Health and School Medical Officer.

He will be required to devote his whole time to the duties, and will not be allowed to engage in private practice. The salary will be at the rate of £600 per annum, rising by £25 per annum to £700.

RESIDENT ASSISTANT MEDICAL OFFICER (Man, single).

A candidate must have had experience in the treatment of cases of infectious disease at an Isolation Hospital. The duties will include the medical care of patients in the Chiswick and Ealing Isolation Hospital, South Ealing, and the medical inspection and treatment of school-children at schools and health centres in the borough of Ealing.

The person appointed will reside at the Isolation Hospital where furnished rooms and board will be provided.

He will be required to devote his whole time to the duties and will not be allowed to engage in private practice. The salary will be at the rate of £350 per annum, rising by £25 per annum to a maximum of £550, plus board and residence, as indicated above and valued at £150 per annum.

A deduction of 5 per cent. will be made from the salary in each case in accordance with the provisions of the Local Government and Other Officers' Superannuation Act, 1922, which has been adopted by the Council, and the appointment will be subject to passing the Council's medical examination in connexion therewith. Canvassing will be a disqualification.

Copies of the application forms and terms of appointments can be obtained from Dr. Thomas Orr, Medical Officer of Health, Town Hall, Ealing, W.5, to whom applications, accompanied by copies of not more than three recent testimonials, must be delivered not later than the 20th January.

R. H. WANKLYN, Town Clerk.

Town Hall, Ealing, W.5.

Hampstead General and North-West
LONDON HOSPITAL, Haverstock Hill, N.W.3.

APPOINTMENT OF HOUSE SURGEON.

Applications are invited from unmarried Medical Men for the Resident appointment of House Surgeon for six months, vacant on February 1st next. Salary £100 per annum.

Applications to be made on the prescribed form, together with copies of not more than three testimonials, should be returned to the Secretary by January 18th next.

Metropolitan Hospital,
London, E.8.

Applications (Male) are invited to fill a vacancy on the HONORARY ANÆSTHETIST'S STAFF. The duties will be to attend the hospital each Wednesday morning for an Ear, Nose, and Throat Session. There is an honorarium of £25 per annum attached to the post.

Applicants should apply to the undersigned by the 19th January next giving such evidence of their fitness for the post as they care to submit.

FRANK JENNINGS, House Governor and Secretary.

Manchester Northern Hospital.
(General Hospital, 113 Beds.)
Cheetham Hill-road, MANCHESTER, 8.

Applications are invited for the posts of RESIDENT HOUSE PHYSICIAN and RESIDENT HOUSE SURGEON. Salary £100 per annum, with board and residence.

The appointments are for six months from mid-February, 1938 (successful candidates are eligible for reappointment for a further six months).

Applications, stating age, qualifications, and nationality, with copies of not less than three recent testimonials, should be sent to Mr. JAMES C. DANIELS, Secretary, 38, Barton Arcade, Manchester, 3, by 20th January.

Ingham Infirmary, South Shields.

Wanted, JUNIOR HOUSE SURGEON (Male). Salary £150 per annum, with board, residence, and laundry. No out-visiting. Candidates must hold registered qualifications in medicine and surgery. The appointment will be terminable by one month's notice.

Applications, stating age and accompanied by copies (which will not be returned) of recent testimonials, to be sent to the undersigned, from whom further particulars may be obtained.

JOHN POTTER, Secretary.

Beckett Hospital and Dispensary,
BARNSLEY.
(153 Beds.)

HOUSE PHYSICIAN, with anæsthetic duties, required immediately. Applicants must be registered, and preference will be given to those who have held a previous Hospital post.

Salary £200 per annum, with board, residence, and laundry.

Applications, together with testimonials, should be sent to the undersigned.

ARTHUR L. BOURNE, Secretary-Superintendent.

4th January, 1938.

Taunton and Somerset Hospital,
TAUNTON.

HOUSE SURGEON (Male) required end of January. Salary rate of £125 per annum, board, residence, and laundry, and retention of certain fees.

Applications, with copies of not more than three recent testimonials, to F. J. J. STACEY, Secretary.

Dagenham Urban District Council.

ASSISTANT MEDICAL OFFICER OF HEALTH (MALE).

Applications are invited from duly qualified Medical Men, having at least two years' experience in a comparable position, for the post of Assistant Medical Officer of Health. Preference will be given to candidates possessing the Diploma in Public Health, or an equivalent qualification. Commencing salary £600 per annum, rising by annual increments of £25 to £700, subject to Superannuation deductions.

The person appointed will be required to devote the whole of his time to the duties of the office, which consist mainly of work in the Maternity and Child Welfare Department, but may also include duty in any section of the health services of the district.

Experience in ante-natal and maternity and child welfare work is essential.

Opportunities will be available for acquiring experience in Public Health administration.

Applications, on forms obtainable from the Medical Officer of Health at the undermentioned address, should be returned to the undersigned on or before 15th January, 1938.

Canvassing disqualifies.

F. W. ALLEN, Clerk of the Council.

Civic Centre, Dagenham, Essex, January 4th, 1938.

St. Andrew's Hospital for Mental DISEASES FOR THE UPPER AND MIDDLE CLASSES, NORTHAMPTON.

A RESIDENT MEDICAL SUPERINTENDENT is required for this Institution.

He must be either a Doctor of Medicine of one of the Universities of the United Kingdom or Ireland where residence and exercise are required to take a degree, or a Fellow or Member or Licentiate of one of the Royal Colleges of Physicians or Surgeons of the United Kingdom or Ireland, and must have had experience in the treatment of Mental Diseases.

Salary £2000 per annum, with unfurnished residence, coals, electric light, vegetables, and washing allowance. Further increments will be at the discretion of the Committee of Management. The salary and emoluments will be subject to a deduction towards the Hospital's Superannuation Fund.

Candidates qualified as above are requested to send in their applications and not more than three testimonials on or before January 31st, 1938, to the Chairman, Sir Charles V. Gunning, Bart., C.B., C.M.G., c/o The Clerk to the Committee of Management, St. Andrew's Hospital, Northampton.

Candidates whose qualifications are approved will be invited to attend a meeting of the Governors of the Hospital of which they will receive notice, and the testimonials of other candidates will be returned.

The gentleman selected will be required to enter upon his duties not later than May 2nd, 1938.

Canvassing is strictly prohibited, and will disqualify.

By order of the Committee of Management.

CHARLES V. GUNNING, Chairman.

Royal Surrey County Hospital, GUILDFORD. (216 Beds.)

Wanted, 1st February, 1938, HOUSE SURGEON (Male), Six months' appointment, recognised for the F.R.C.S. Duties. General Surgery, Orthopædics, and Casualties. Salary £150 per annum, with board, residence, and laundry.

Applications, stating age and essential particulars, with copies of not more than three testimonials, to reach the Secretary-Superintendent not later than 11th January, 1938.

University of Wales.

THE WELSH NATIONAL SCHOOL OF MEDICINE.

Applications are invited for the DAVID DAVIES PROFESSORSHIP OF TUBERCULOSIS. The person appointed will also hold office as Director of Research and Honorary Consultant to the Welsh National Memorial Association. The appointment is a full-time one, and the combined emoluments are at the rate of £1500 per annum.

Further particulars of the appointment may be obtained from the Secretary, The Welsh National School of Medicine, The Parade, Cardiff. S. C. EDWARDS, Secretary.

Severalls Mental Hospital, Colchester.

Required, an ASSISTANT MEDICAL OFFICER (Lady), at the above-named Hospital.

Persons registered under the Medical Acts, with experience of a resident appointment in a General Hospital, are invited to apply for the appointment.

Salary £510, rising annually by £25 to £610 per annum. Possession of the Diploma of Psychological Medicine carries £50 per annum extra to the scale.

The appointment is subject to the terms of the Asylums Officers' Superannuation Act, 1909.

Applications, stating full particulars of qualifications, experience, age, &c., to be addressed to the Medical Superintendent.

City of Leeds.

KILLINGBECK SANATORIUM.

SENIOR ASSISTANT RESIDENT MEDICAL OFFICER.

Applications are invited from registered Medical Practitioners (Male) for the post of Senior Assistant Resident Medical Officer at the Tuberculosis Sanatorium, Killingbeck (242 Beds).

Applicants must be unmarried, and preference will be given to those who have held a general hospital appointment and had experience in the treatment of pulmonary and surgical tuberculosis in sanatoria. Under the present salaries scale of the Council, the commencing salary for the post is £425 per annum and the maximum salary £500 per annum, with board, residence, and laundry, these emoluments being valued for superannuation purposes at £120 per annum, together with annual increments of £25 subject to satisfactory service. The first increment will take effect on the 1st April following the completion of twelve months' service.

The person appointed will be required to pass a medical examination and to contribute to the Superannuation Fund established under the Local Government and Other Officers' Superannuation Act, 1922.

Applications on a form to be obtained from the undersigned, together with copies of three recent testimonials, and endorsed "Tuberculosis Officer," must be received at the Health Department, 12, Market-buildings, Vicar-lane, Leeds, 1, not later than 10 A.M. on Saturday, January 15th, 1938.

J. JOHNSTONE JERVIS, Medical Officer of Health.

Canvassing in any form, either directly or indirectly, will be a disqualification.

Coton Hill Mental Hospital, Stafford.

Wanted, an ASSISTANT MEDICAL OFFICER (Male, unmarried). Salary £400 per annum, with residence, board, and laundry.

Applications, with testimonials (copies only), to be sent to the Chairman as soon as possible.

The Children's Hospital, KING EDWARD VII MEMORIAL, BIRMINGHAM, 16.

Out-patients' Department.

With a view to improving the Out-patient Services, the Board invites applications for the following posts:—

RECEIVING ROOM OFFICER, who must be a Pædiatrician, to attend from 9 A.M. to 1 P.M., and who will see all new cases attending in the mornings, including casualties. Salary £250 per annum.

SENIOR CASUALTY HOUSE SURGEON (Resident). Salary £125 per annum.

FIRST ASSISTANT TO THE ORTHOPÆDIC DEPARTMENT, who will assist at the Orthopædic Clinic on Thursday mornings and attend a Fracture Clinic one morning weekly. Salary £100 per annum.

In addition to the above, the personnel of the Out-patient Department includes a whole-time First Assistant to the Ear and Throat Department and a Junior Casualty House Surgeon.

The appointments are for one year, with eligibility for reappointment.

Particulars of duties, &c., can be obtained from the undersigned. The duties to commence on 31st March, 1938.

Applications, together with copies of testimonials, should be sent to the undersigned.

HAROLD F. SHRIMPTON, House Governor.

21st December, 1937.

County Borough of West Bromwich. HALLAM HOSPITAL. (472 Beds.)

HOUSE PHYSICIAN.

Applications are invited from duly qualified Male registered Practitioners for the above-mentioned post.

The appointment is for six months, with eligibility for a further six months. Either party may give six weeks' notice terminating the appointment. There is a visiting staff of eight physicians and surgeons, one resident surgical officer, and three resident medical officers.

The person appointed will be required to act under the general direction of the Medical Officer of Health, and the Medical Clinical Superintendent.

Salary £200 per annum, and board residence. All fees received by the person appointed will be payable into the funds of the Council.

Applications, stating age, experience, and qualifications, together with copies of three recent testimonials, must be forwarded to the Medical Officer of Health, 2, Lodge-road, West Bromwich, so as to arrive not later than by first post on Thursday, 13th January, 1938.

ALFRED WICKHAM, Town Clerk.

Town Hall, West Bromwich, 24th December, 1937.

Bristol Royal Infirmary.

Applications are invited for the following Resident Medical Appointments for the six months commencing March 1st, 1938:—

Three HOUSE PHYSICIANS (one of whom also acts as House Physician to the Cancer Department).

Four HOUSE SURGEONS and One ASSISTANT HOUSE SURGEON.

One HOUSE SURGEON to the Casualty Department.

One HOUSE SURGEON to the Fracture Department.

One HOUSE SURGEON to the Ear, Nose, and Throat Department.

One SENIOR OBSTETRIC HOUSE SURGEON.

One JUNIOR OBSTETRIC HOUSE SURGEON.

Salaries at the rate of £80 per annum, except in the case of the Senior Obstetric House Surgeon who will receive a salary at the rate of £100 per annum and the Senior Casualty House Surgeon who will receive a salary at the rate of £150 per annum.

Candidates, who must be duly qualified, to send in their applications on forms to be obtained from the undersigned, which must be returned on or before January 15th, 1938, together with copies of not more than three testimonials.

The elected candidates must become members of the Medical Defence Union before taking up their appointments.

ELLIS C. SMITH, F.C.I.S., Secretary and House Governor.

Norfolk and Norwich Hospital, NORWICH. (417 Beds.)

Applications are invited for the following posts: GENERAL HOUSE SURGEON and HOUSE SURGEON TO THE SPECIAL DEPARTMENTS (Ear, Nose, and Throat and Ophthalmic). Salary for post of General House Surgeon £120 per annum. Salary for post of House Surgeon to Special Departments £160 per annum, both with board, residence, and laundry.

Candidates (Male) must be unmarried and must possess registered qualifications.

Applications, stating age, nationality, &c., together with copies of testimonials, should reach the undersigned not later than Tuesday, 11th January, 1938.

FRANK INCH, House Governor and Secretary.

31st December, 1937.

The Incorporated Liverpool School of TROPICAL MEDICINE.
(UNIVERSITY OF LIVERPOOL.)

Applications are invited for the post of ASSISTANT LECTURER AND DEMONSTRATOR in the Department of Entomology at the above School.

Candidates should be graduates of a British or Colonial University, and must hold a medical qualification or a good degree in Zoology.

Initial salary £400 per annum.

Applications should be made not later than January 31st, 1938, to the Secretary, School of Tropical Medicine, Pembroke-place, Liverpool, 3, from whom further particulars may be obtained.

Durham County Hospital,
DURHAM CITY.
(100 Beds.)

Male HOUSE SURGEON required. Duties to commence 1st February, 1938.

Salary at the rate of £150 per annum, with board, residence, and laundry.

Appointment for six months, subject to renewal for similar period.

Applications, stating age, experience, and nationality, accompanied by three recent testimonials, should be addressed to the undersigned not later than 14th January, 1938.

22nd December, 1937. NORMAN BROWN, Secretary.

The Prince of Wales's Hospital,
Greenbank-road, PLYMOUTH.
(Formerly South Devon and East Cornwall Hospital.)
(264 Beds.)

Applications are invited for the post of HOUSE SURGEON. Salary £120 per annum with board, residence, and laundry.

Appointment is tenable for six months and is subject to renewal. Duties to commence 26th January.

The Hospital is officially recognised for the surgical practice required before admission to the Final Fellowship Examination of the Royal College of Surgeons of England.

Applicants must be registered under the Medical Acts. Applications, stating age and qualifications, with copies of three recent testimonials, to reach the undersigned by 14th January. ARTHUR R. CASH, Gen. Supt. and Secretary.

Prince of Wales's Hospital, Devonport.
(Formerly Royal Albert Hospital, Devonport.)
(64 Beds.)

Applications are invited for the post of JUNIOR HOUSE SURGEON. Salary £120 per annum, with board, residence, and laundry.

Duties to commence 29th January, 1938. Appointment is tenable for six months and is subject to renewal, or promotion to the senior position when this post becomes vacant. Applicants must be registered under the Medical Acts.

Applications, stating age, and qualifications, with copies of three recent testimonials, to reach the undersigned not later than 14th January.

ARTHUR R. CASH, Gen. Supt. and Secretary.
Prince of Wales's Hospital, Greenbank-road, Plymouth.

ROYAL EYE AND EAR HOSPITAL, BRADFORD
(94 Beds.)

HOUSE SURGEON (Lady) required. Salary £180, with board, residence, and laundry.

Applications, stating qualifications, age, &c., with copies of recent testimonials, should be sent to the undersigned on or before January 12th. F. BRIGGS, Secretary-Superintendent.

Wolverhampton and Midland Counties EYE INFIRMARY.

HOUSE SURGEON wanted. Ophthalmic experience preferred. Duties to commence early in February, 1938. There are 50 Beds for In-patients and large Out-patient Department. Salary £150 a year, with furnished apartments, board, and laundry. Ladies and gentlemen applying should state age and experience, and send copies of three recent testimonials to reach the Secretary not later than first post 18th January.

30th December, 1937. EUSTACE LEES, Secretary.

The Stockport Infirmary.
(140 Beds.)

The Board invite application for the post of RESIDENT SURGICAL OFFICER (Male and unmarried).

Salary £250 per annum, together with board, residence, and laundry.

Previous resident hospital experience essential. The Resident Staff consists of a Resident Surgical Officer, two House Surgeons, and a House Physician.

Applications, with copies of three recent testimonials, stating age, nationality, qualifications, and experience, to be sent to the undersigned on or before January 12th, 1938. Duties to commence 15th February, 1938.

H. G. PRICE, Secretary-Superintendent.

City Mental Hospital, Humberstone,
LEICESTER.

ASSISTANT MEDICAL OFFICER (Male).

Residential General Hospital experience is desirable. Salary £350, rising by £50 per annum to £450 per annum, together with board, lodging, washing, and attendance, valued for purposes of superannuation at £150 per annum. If the applicant be married he will be permitted to live out, and the salary will commence at £500, rising by £50 per annum to £600. An additional £50 per annum will be paid for possession of a D.P.M.

The appointment is subject to the provision of the Asylums Officers' Superannuation Act, 1909.

There is a good laboratory and two active Psychiatric Clinics, one attached to the Leicester Royal Infirmary.

Applications, giving particulars of experience, &c., together with names of three references, one of which should be non-professional, and marked "A.M.O.," to be sent to the Medical Superintendent.

Liverpool Dental Hospital,
Pembroke-place, 3.

The Committee invites applications for the post of HON. ANÆSTHETIST. Attendance—one half day per week.

Applicants must possess a Medical qualification. Further particulars may be obtained from the Hon. Director, by whom applications must be received not later than Wednesday, February 2nd, 1938.

Royal Hospital, Richmond, Surrey.

Applications are invited for the following post which falls vacant immediately:—

JUNIOR HOUSE SURGEON. £100 per annum.

With board, furnished apartments, and laundry.

Candidates must be fully qualified, registered, and single. Form of application can be obtained from the Secretary-Superintendent.

Kent County Ophthalmic and Aural HOSPITAL, MAIDSTONE.
(109 Beds.)

Applications are invited for the post of OPHTHALMIC HOUSE SURGEON, which post becomes vacant on the 1st February, 1938. The appointment is for six months, but a senior post at a higher salary may be given after that period if mutually agreed upon. Candidates must be duly qualified and registered Medical Practitioners, single, and of British birth and nationality, and should have experience of refractions. Salary at the rate of £200 per annum, with board, residence, and laundry. The Hospital is recognised by the Examining Board for the D.O.M.S.

Applications, stating age and qualifications, together with copies of not more than three testimonials, should be sent to the undersigned.

JOHN W. STRICKLAND, Secretary.

St. Anne's Home, Altrincham,
CHESHIRE.

Wanted, a RESIDENT SURGICAL OFFICER for the above Hospital (50 Beds). Must be registered. Salary £200 per annum, with board, apartments, &c. This Hospital is the Ear, Nose, and Throat Department of the Manchester Hospital for Consumption and Diseases of the Ear, Nose, Throat, and Chest, and duties include attendance on two mornings a week at the Out-Patient Department, Manchester.

Applications, with copies of testimonials, to be sent not later than January 22nd, to W. HUNT, Secretary, 45, Hardman-street, Manchester 3.

Addenbrooke's Hospital, Cambridge.

The General Committee will, at their meeting to be held on 25th January, 1938, proceed to the election of an HONORARY DENTAL SURGEON.

Applications, stating age, qualifications, &c., should be sent to the undersigned on or before January the 18th, 1938.

J. A. BEARDSALL, Secretary-Superintendent.

Lancashire County Council.
JUNIOR ASSISTANT MEDICAL OFFICER,
HIGH CARLEY SANATORIUM, Near ULVERSTON.

Applications are invited for the post of Junior Assistant Medical Officer (Male, unmarried) for the High Carley Sanatorium, near Ulverston, which contains 130 beds for adult cases of pulmonary tuberculosis, and 21 beds in the Oubas House Children's Sanatorium, near Ulverston, for pulmonary cases. Salary £300 per annum, together with board, residence, and laundry.

The appointment will be for a period of twelve months.

The medical staff consists of medical superintendent, and one assistant. Mr. Morriston Davies acts as senior Visiting Consulting Chest Surgeon. There are excellent facilities for reading for M.D.

Forms of application and conditions of appointment obtainable from Central Tuberculosis Officer, County Offices, Preston. Letters to be marked "High Carley M.O."

Closing date 24th January, 1938.

GEORGE ETHERTON, Clerk of the County Council.
County Offices, Preston, 4th January, 1938.

The Royal Hospital, Wolverhampton.
(Incorporated under Charter.)

GYNÆCOLOGICAL AND OBSTETRIC DEPARTMENT.

ASSISTANT RESIDENT MEDICAL OFFICER (Female) required for the above Department (60 Beds) duties to commence 1st February, 1938.

Candidates must be registered under the Medical Acts and unmarried.

The appointment is for six months. Salary at the rate of £100 per annum. Board, furnished rooms, and laundry provided. Applications, with copies of testimonials, to be forwarded to the undersigned.

W. H. HARPER, House Governor.

Wolverhampton, 29th December, 1937.

County Mental Hospital, Whittingham,
PRESTON, LANCS.

RESIDENT JUNIOR ASSISTANT MEDICAL OFFICER, single, required. Salary £500, rising by annual increments of £25 to £600. No emoluments. £50 per annum is paid when the successful candidate obtains the Diploma in Psychological Medicine. The successful candidate will be required to live in the Hospital and charges at the rate of £150 per annum will be made for board, furnished apartments, and washing.

Candidates must be duly registered under the Medical Act.

Applications, stating age, which must not exceed thirty, qualifications, and copies of testimonials, should reach the Medical Superintendent not later than the morning of 18th January, 1938. The successful candidate will be required to undergo medical examination. The appointment is subject to the provisions of the Asylums Officers' Superannuation Act, 1909, and the Regulations of the Lancashire Mental Hospitals Board.

City of Birmingham Education
COMMITTEE.

APPOINTMENT OF ASSISTANT SCHOOL MEDICAL OFFICER (MALE OR FEMALE).

Applications are invited for the appointment of Assistant School Medical Officer (Male or Female).

Candidates must have had at least three years' experience in the practice of their profession subsequent to obtaining a registerable qualification. Salary according to "Askwith" Scale (£500 to £700 by annual increments of £25). £10 per annum travelling expenses allowed. Forms of application (to be returned not later than first post on Monday, 31st January, 1938), together with further information, may be obtained from the undersigned on receipt of a stamped addressed foolscap envelope. Communications should be endorsed "Assistant School Medical Officer." Canvassing will disqualify.

P. D. INNES, Chief Education Officer.

Education Office, Margaret-street, Birmingham, 3,
1st January, 1938.

AMENDED ADVERTISEMENT.

Middlesbrough Education Committee.

APPOINTMENT OF ASSISTANT SCHOOL MEDICAL OFFICER.

Applications are invited from duly qualified candidates, who are not over forty-five years of age, for a position as Assistant School Medical Officer to act under the School Medical Officer in connexion with the medical inspection and treatment of school-children, and such other duties as may be required by the Education Committee.

Commencing salary £500 per annum (provided the successful candidate has had not less than three years' post-graduate experience), rising by annual increments of £25 to £700 per annum. The Committee may, at their discretion, take into account previous experience as an Assistant School Medical Officer in determining the amount of the commencing salary. The successful candidate will be required to devote his (her) whole time to the duties of the office. The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and the successful candidate will be required to pass satisfactorily a medical examination. The appointment will be terminable by two calendar months' notice on either side.

Forms of application may be obtained on application to the Director of Education, Education Offices, Woodlands-road, Middlesbrough, to whom completed forms should be returned not later than Monday, 17th January, 1938.

Canvassing in any form will disqualify.

PRESTON KITCHEN, Town Clerk.

Town Clerk's Office, Municipal Buildings, Middlesbrough,
31st December, 1937.

County Borough of Huddersfield.

ST. LUKE'S HOSPITAL.

RESIDENT MEDICAL OFFICER.

Applications are invited from registered Medical Practitioners for above appointment, which is for one year. Salary £230 per annum, with board, residence, and laundry.

Applications, stating age, training, qualifications, and experience, should be forwarded to the Medical Officer of Health, Huddersfield, so as to reach him not later than 19th January, 1938.

SAMUEL PROCTER, Town Clerk.

Town Hall, Huddersfield, January, 1938.

The Royal Infirmary, Sheffield.
(500 Beds.)

The Board of Management invite applications for the undermentioned posts:—

(1) SENIOR CASUALTY OFFICER,
(2) HOUSE PHYSICIAN.

The salary attached to (1) is £150 per annum, with board and residence, and the appointment will be tenable for the six months' period commencing 1st January, 1938. This post is next in seniority to that of Resident Surgical Officer.

The salary of (2) is £80 per annum, with board and residence, increasing after six months' service to £100 per annum. This post will be tenable for the residue of the period of six months to 30th April, 1938, when the successful candidate will be eligible for re-election to this or one of the other resident posts.

Applications, with copies of testimonials, to be sent to the General Superintendent and Secretary.

31st December, 1937.

Kent and Sussex Hospital,
ROYAL TUNBRIDGE WELLS.
(210 Beds.)

Applications are invited for the post of HOUSE SURGEON to Ear, Nose and Throat Department and RESIDENT ANÆSTHETIST, to commence duty on 29th January, 1938. Salary £150 per annum, with board, residence, and laundry in the Hospital.

The Hospital contains the following departments:—

Medical, Surgical, Ear, Nose and Throat, Ophthalmic, Orthopædic, Gynæcological, X Ray and Electro-therapeutic, Massage, Pathological, Venereal Diseases, &c.

Applications, stating qualifications, together with certificate of registration, and copies of not more than three recent testimonials, should be sent to the undersigned as soon as possible.

TOM B. HARRISON, Superintendent-Secretary.

3rd January, 1938.

HIS MAJESTY'S COLONIAL SERVICE

COLONIAL MEDICAL SERVICE

A vacancy exists for an ASSISTANT MEDICAL SUPERINTENDENT at the CENTRAL MENTAL HOSPITAL, TANJONG RAMBUTAN, in the FEDERATED MALAY STATES.

QUALIFICATIONS.

Candidates must be British subjects of European parentage under thirty-three years of age, and must have had at least two years' experience as an Assistant Medical Officer in a County, City or Borough Mental Hospital, in Great Britain or Ireland. Possession of medical qualifications registrable in the United Kingdom and a Diploma in Psychological Medicine is essential.

SALARY.

£840 a year, rising by annual increments of £35 to £1120 a year.

QUARTERS.

Furnished quarters are provided at a small rental.

PASSAGES.

Free passages will be provided both for an officer and his family on first appointment and when proceeding on or returning from leave.

TERMS OF APPOINTMENT.

The appointment is pensionable, subject to a probationary period of three years in the first instance.

DUTIES.

The officer will be required to assist the Medical Superintendent in the treatment of patients, maintenance of discipline, &c., in the Mental Hospital. He may be required to give lectures and clinical teaching on mental diseases to students of the College of Medicine, Singapore.

Further particulars and forms of application may be obtained from the Director of Recruitment (Colonial Service), 2, Richmond-terrace, Whitehall, London, S.W.1.

Leicester Royal Infirmary.
(500 Beds.)

RESIDENT ANÆSTHETIST.

Applications are invited for the above post, for a period of six months in the first instance.

Salary £150 per annum for the first six months, £200 per annum for the second six months, and £225 for the third six months, together with board, residence, and laundry.

Applications, giving full particulars, accompanied by copies of three recent testimonials, should be forwarded to the undersigned forthwith. GEO. W. COOLING, House Governor.

January, 1938.

City and County of Bristol.

SOUTHMEAD MUNICIPAL GENERAL HOSPITAL.

JUNIOR ASSISTANT RESIDENT MEDICAL OFFICER.

Applications are invited for the above appointment which is tenable for six months at a salary of £200 per annum.

Applications, accompanied by three recent testimonials, to be sent to the Medical Officer of Health, 40, Prince-street, Bristol, 1, forthwith.

County Borough of Blackburn.

LADY ASSISTANT MEDICAL OFFICER OF HEALTH AND ASSISTANT SCHOOL MEDICAL OFFICER.

Applications are invited from duly registered Women Practitioners for the appointment of Assistant Medical Officer of Health and Assistant School Medical Officer to act under the direction and supervision of the Medical Officer of Health who is also School Medical Officer. The salary is at the rate of £600 per annum, rising by annual increments of £25 to £700 per annum.

The person appointed must, prior to the 1st April, 1930, have held the appointment of Medical Officer of an Ante-natal Clinic with the approval of the Minister, or have had at least three years' post-graduate experience in the practice of her profession and special experience of practical midwifery and ante-natal work.

Preference will be given to candidates who have enjoyed special post-graduate experience in the treatment of venereal diseases, and of diseases of children, and who hold a registrable Degree or Diploma in Public Health.

Applications to be made on forms to be obtained from the Medical Officer of Health, Victoria-street, Blackburn, and returned to him not later than Saturday, the 22nd January, 1938, endorsed "Assistant Medical Officer of Health."

CHAS. S. ROBINSON, Town Clerk.

Town Hall, Blackburn, 1st January, 1938.

Ancoats Hospital, Manchester.

ASSISTANT PATHOLOGIST, Lady or Gentleman, whole-time appointment—no private work allowed. Salary £400 per annum; live out. Luncheon and tea provided. The appointment is for twelve months and is renewable. During the first six months a certain amount of research work will be conducted.

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Applications for the above posts, stating age and particulars of qualifications and experience, to be forwarded to the undersigned on or before 19th January, 1938, together with copies of three recent testimonials.

By order of the Board.

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The Kidderminster and District General HOSPITAL.

JUNIOR HOUSE SURGEON (Male) required. Salary £100 per annum, with residence, board, and laundry.

Applications, with not more than three testimonials, to be sent to the Secretary, Miss SUSAN SMITH, South Cliff, Kidderminster.

County Borough of Birkenhead.

DEPARTMENT OF THE MEDICAL OFFICER OF HEALTH.

BIRKENHEAD MUNICIPAL HOSPITAL.

DEPUTY MEDICAL SUPERINTENDENT.

Applications are invited for the appointment of Deputy Medical Superintendent (Resident) at the Birkenhead Municipal Hospital (547 Beds).

The remuneration attached to the appointment will be £450 per annum, rising by increments of £25 to a maximum of £550 per annum, together with residence, board, &c.

Applicants must be single, fully qualified and registered, and must be capable of performing major surgical operations.

The appointed candidate will have the status of Assistant Medical Officer on the staff of the Medical Officer of Health.

The appointment will be made subject to the Local Government and Other Officers' Superannuation Act, 1922, and is determinable by three months' calendar notice on either side.

Candidates who possess an extra qualification in surgery will be specially considered.

Forms of application and further particulars relating to this appointment can be obtained from Dr. D. Morley Mathieson, Medical Officer of Health, 9, Hamilton-square, Birkenhead.

Canvassing, directly or indirectly, will disqualify the applicant.

Applications, endorsed "Deputy Medical Superintendent," should reach the undersigned not later than Saturday, 15th January, 1938. E. W. TAME, Town Clerk.

Town Hall, Birkenhead.

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Applications are invited for the post of FIRST HOUSE SURGEON. Duties to commence on 1st February, 1938.

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Applications, together with copies of two recent testimonials, should be sent to the undersigned not later than 17th January.

P. H. CONSTABLE, Secretary.

Derbyshire County Council.

WALTON SANATORIUM, Near CHESTERFIELD.

JUNIOR RESIDENT ASSISTANT MEDICAL OFFICER (Male).

Applications are invited for the post of Junior Resident Assistant Medical Officer at the Derbyshire County Sanatorium. Candidates with previous institutional experience of tuberculosis will be preferred, and practical experience of artificial pneumothorax work will be considered an additional qualification. Candidates must be single.

Salary at the rate of £350 per annum, rising by annual increments of £25 to £450 per annum, together with board, lodging, &c.

The successful candidate will devote the whole of his time to the duties of the office.

The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and the person appointed will be required to pass a medical examination.

Application forms may be obtained from the undersigned, to whom they must be returned, together with copies of not more than three recent testimonials, on or before January 20th, 1938. W. M. ASH, County Medical Officer.

New County Offices, Derby, January 3rd, 1938.

City of Leeds.

ASSISTANT MEDICAL OFFICER.

Applications are invited from qualified and registered Medical Practitioners for the post of Assistant Medical Officer for Maternity and Child Welfare. Applicants must have had not less than three years' post-graduate experience, including experience in General Medicine and Surgery, and special experience in Obstetrics and Ante-natal work, and in the treatment of Children's Diseases and Disease of Women. Preference will be given to candidates possessing the D.P.H.

Under the present Grading Scheme of the Council, the commencing salary for the post is £500 per annum and the maximum salary £700, with annual increments of £25, subject to satisfactory service, and the first increment will take effect on the 1st April following the completion of twelve months' service.

The person appointed will be required to pass a medical examination, and to contribute to the Superannuation Fund established under the Local Government and Other Officers' Superannuation Act, 1922. The appointment will be terminable by one month's notice on either side.

Form of application and particulars as to the duties of the appointment may be obtained from the undersigned.

Applications, endorsed "Maternity and Child Welfare Officer," together with copies of three recent testimonials, must be delivered at the Health Department, 12, Market-buildings, Vicar-lane, Leeds, 1, not later than 10.30 A.M. on Saturday, January 22nd, 1938.

Canvassing in any form, either directly or indirectly, will be a disqualification.

J. JOHNSTONE JERVIS, Medical Officer of Health.

Bootle General Hospital, Bootle,

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One CASUALTY OFFICER.

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The salary attached to each post is £150 per annum, with board, residence, and laundry.

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Applications, with copies of testimonials, should reach me as soon as possible. A. J. COOPER, Secretary-Superintendent.

Hove General Hospital.

(50 Beds.)

Applications are invited for the posts of HONORARY CLINICAL ASSISTANTS in the Gynæcological Department and in the Ear, Nose, and Throat Department.

Typewritten applications showing qualifications and past and present appointments must be received by the undersigned not later than February 1st, 1938. No testimonials need be sent in the first instance.

K. C. BOOKER, Secretary-Superintendent.

Grimsby and District Hospital.

(164 Beds.)

Applications are invited for the posts of:—

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(b) JUNIOR HOUSE SURGEON (Male).

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Applications, stating age, qualifications, experience, and not more than three recent testimonials, to be forwarded to the undersigned immediately.

H. B. COATES, Secretary-Superintendent.

4th January, 1938.

Oldham Royal Infirmary.

CASUALTY OFFICER and HOUSE SURGEON to the Fracture Department for a period of six months.

Salary at the rate of £175 per annum with board, residence, and laundry.

Applications, stating age, experience, and qualifications, together with copies of three recent testimonials, must be forwarded to the undersigned not later than the 13th January, 1938. H. J. CLOUT, General Superintendent.

Oldham Royal Infirmary.

HOUSE SURGEON required for a period of six months.

Salary at the rate of £175 per annum, with board, residence, and laundry.

Applications, stating age, experience, and qualifications, together with copies of three recent testimonials, must be forwarded to the undersigned not later than the 13th January, 1938. H. J. CLOUT, General Superintendent.

Rural District Council of Dartford.

PART-TIME MEDICAL OFFICER.

The Council invite applications for the appointment of a Part-time Medical Officer at a salary of £250 per annum. The successful candidate will be under the general direction of the Medical Officer of Health, but the duties will be mainly in connexion with the Council's Maternity and Child Welfare work.

Applications, on forms to be obtained from the undersigned, should reach me by not later than the 17th January, 1938, endorsed "Medical Officer."

EUSTACE J. HOBBS, Clerk to the Council.

The Council Offices, West Hill, Dartford.

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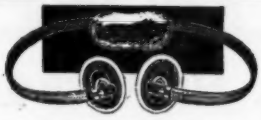

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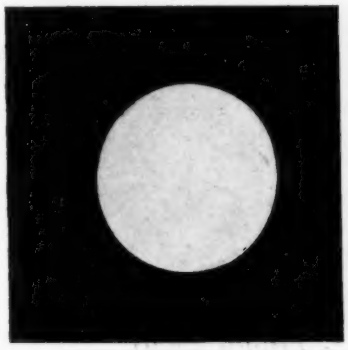

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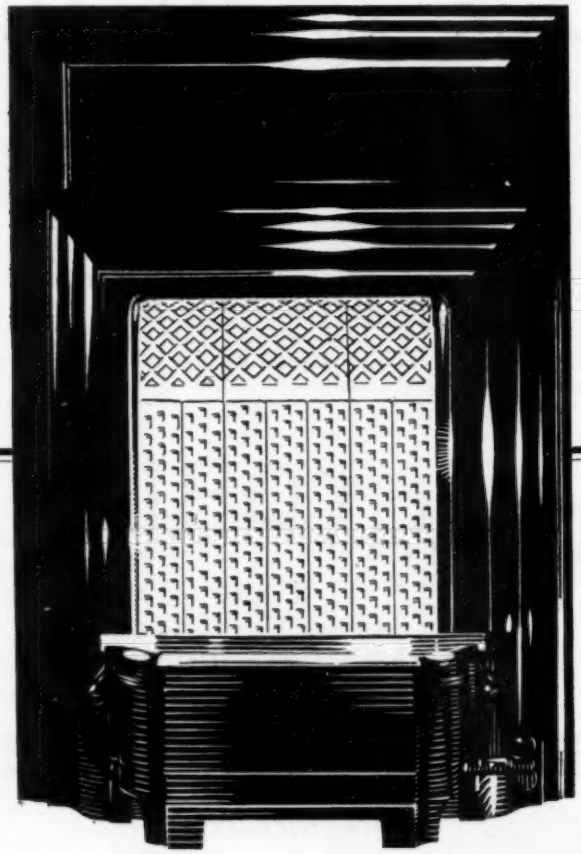

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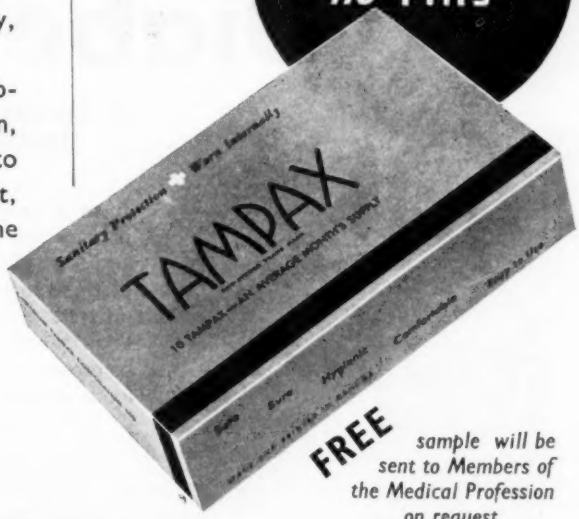

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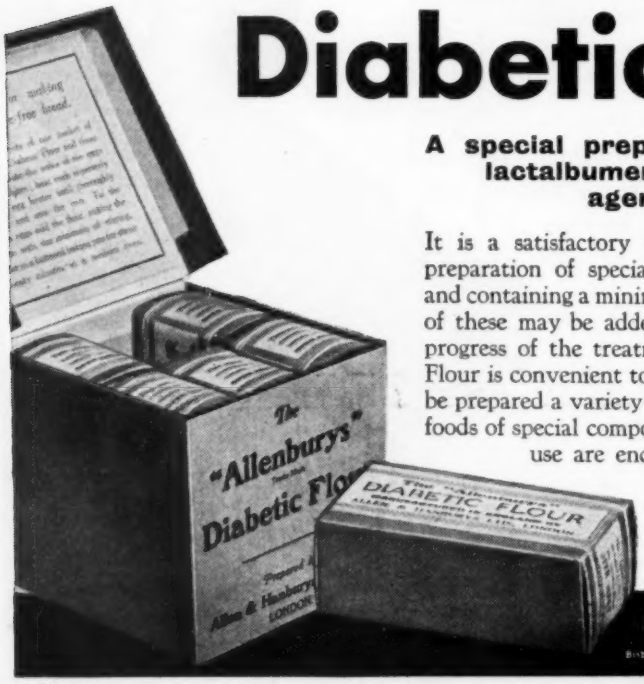

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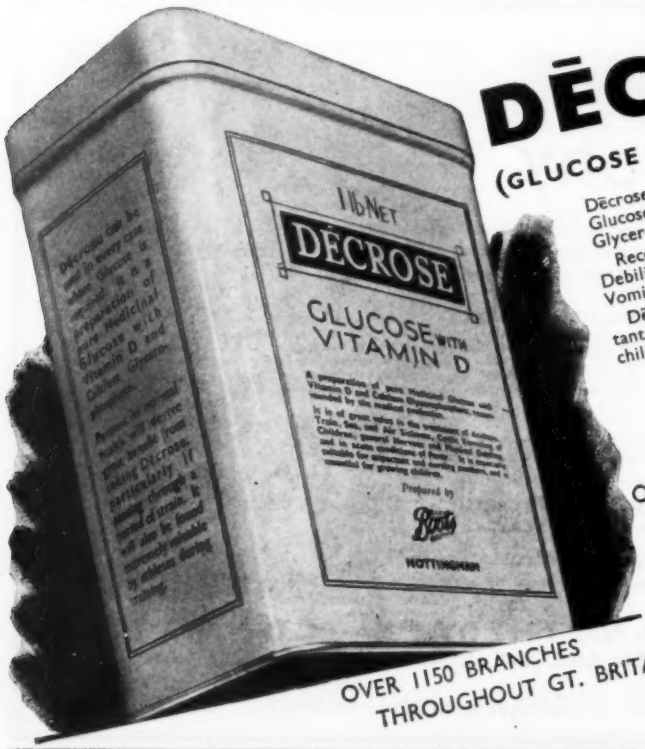

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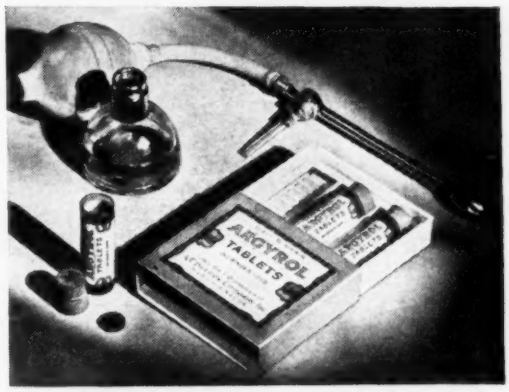

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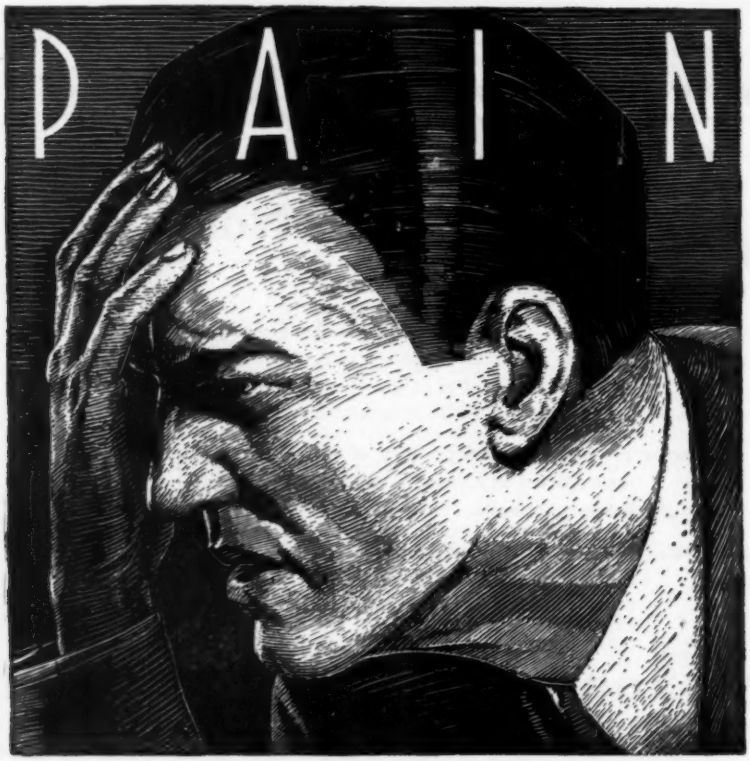

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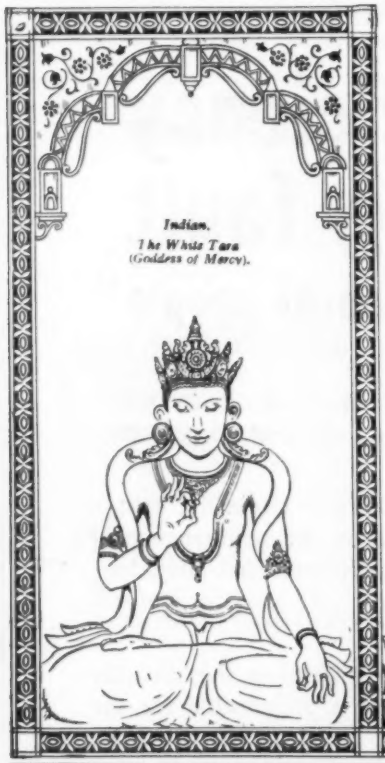

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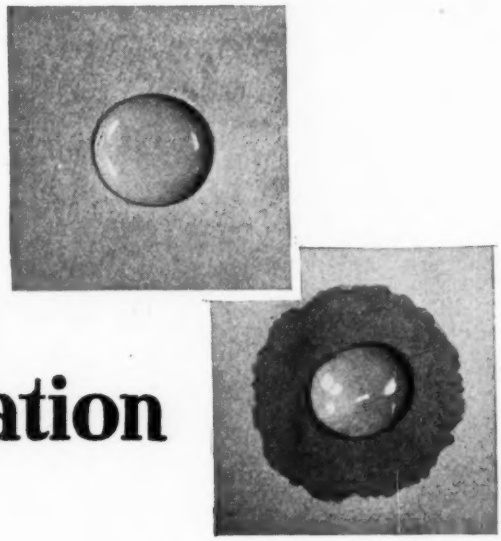

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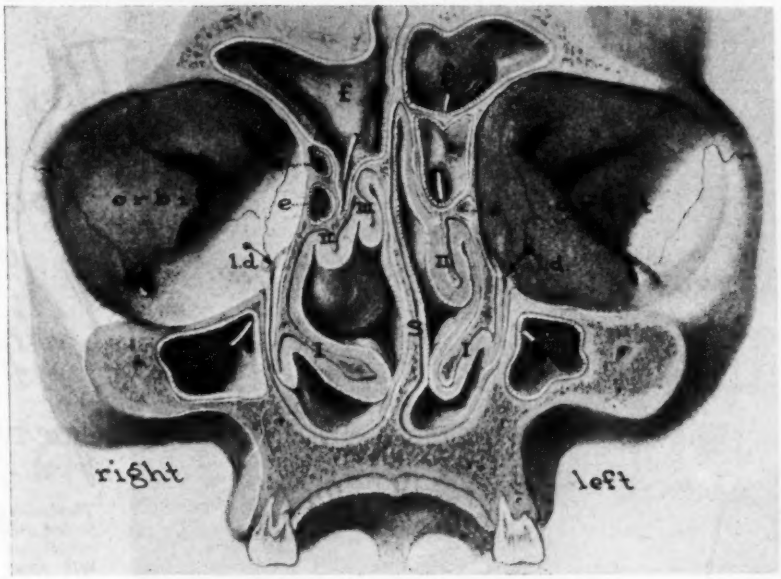

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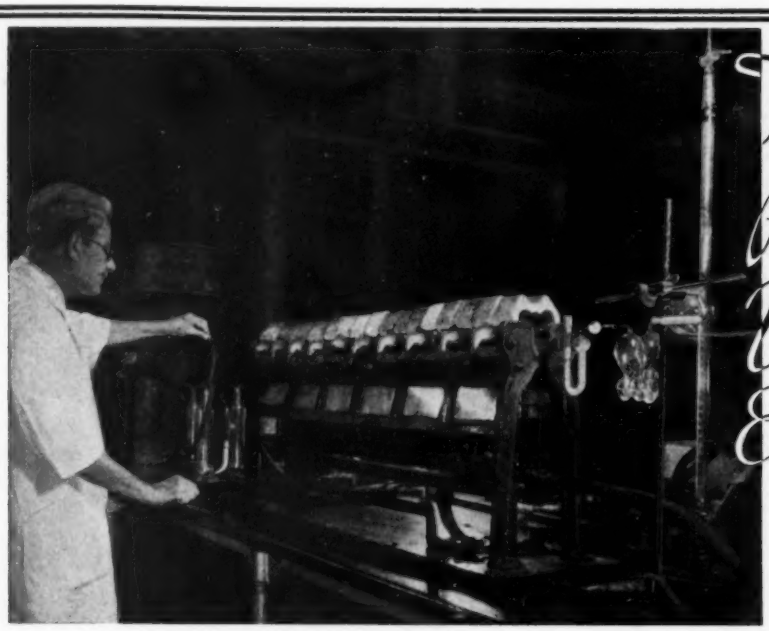

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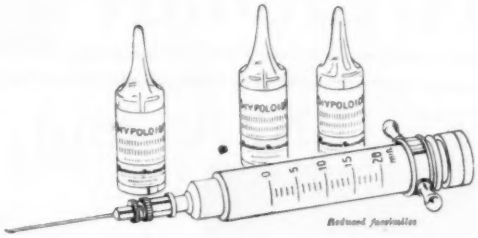

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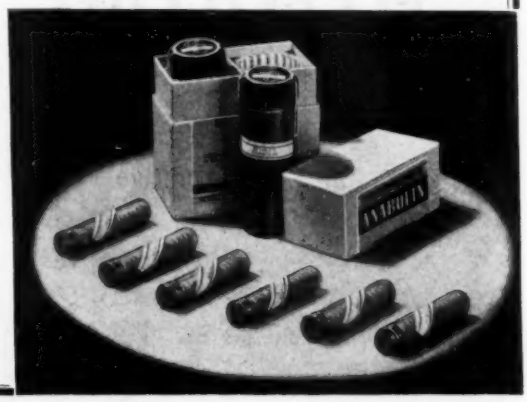

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PROC. ROY. SOC. MED., JANUARY, 1937, p.276

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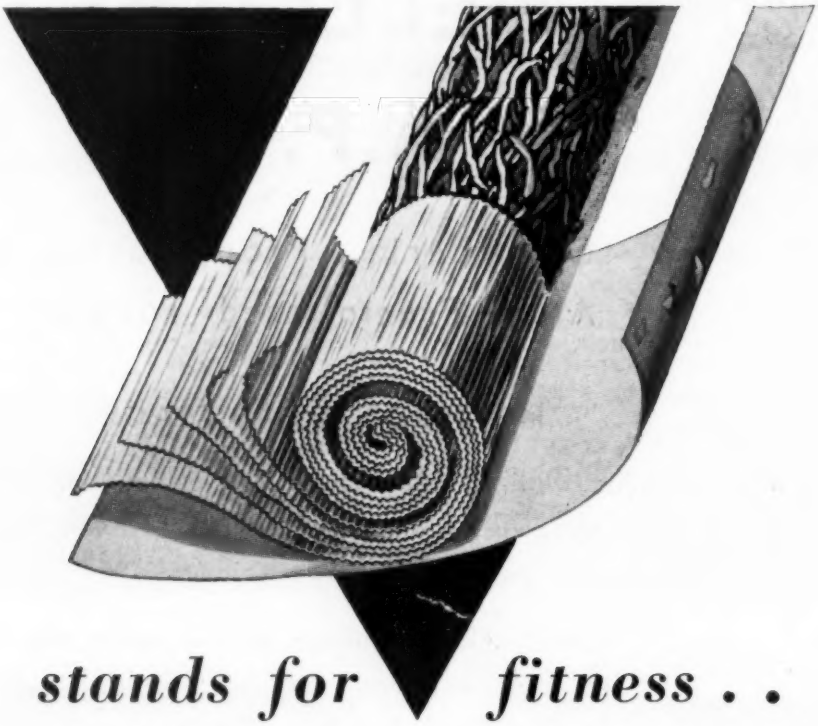

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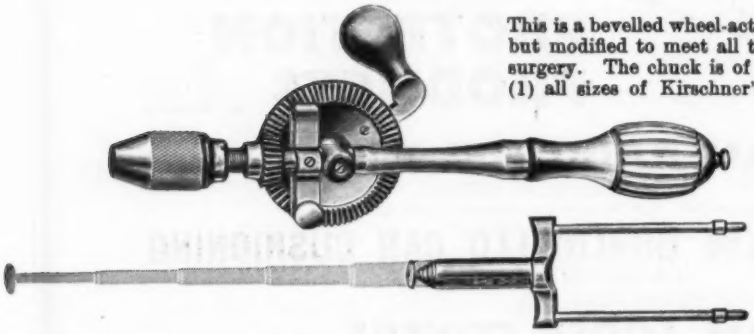

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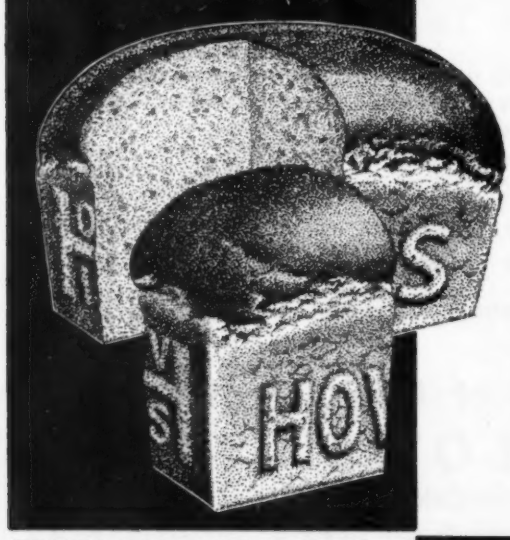

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SUPPLY STATE REGISTERED NURSES FOR ALL TYPES OF ILLNESS, INCLUDING MENTAL AND NERVE CASES AT A MOMENT'S NOTICE—DAY OR NIGHT

All Nurses fully insured against Accident. Terms from £3 13 6. Apply MATRON.

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In conjunction with the MALE NURSES' ASSN.

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Specially trained Nurses for Mental and Nerve cases. (All Nurses are insured under the Employers Liability Act, 1906.) Apply the Supt.

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400 feet above sea.

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Apply Dr. Haynes
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THE HARE NURSING HOME

For the treatment of Alcoholism, other Drug Habits, Insomnia, Neurasthenia, Functional Nervous Disorders. Fees 6 to 8 guineas. Special terms for paying guests or long term patients. Billiards and various amusements. Charmingly situated. Under new management with added accommodation. Ladies and gentlemen admitted for treatment. For Prospectus apply Medical Superintendent or Matron.

'Phone: Chislehurst 451.

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Medical institution located on the shores of beautiful Lake Geneva, half-way between Lausanne and Geneva.

Scientific treatment of DIGESTIVE DISORDERS, CHRONIC DISEASES, DIABETES, OBESITY, &c., by skilled resident physicians. Physiotherapy in its various forms. Special emphasis on diet. Convalescence and rest cures.

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Climate healthy and bracing.

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The Grove, Old Catton, Norwich.

A High-class Home for the Curative Treatment of Nervous Affections. Voluntary Boarders are also received without certificates.

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The house is situated high up, in 40 acres of beautiful grounds, 17 miles from London. One Lady Doctor is in residence, and another specialist in psychological medicine is in daily attendance. Fees from ten guineas a week, inclusive.

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HOSPITAL FOR MENTAL DISORDERS.

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This Registered Hospital for the Treatment and Care, at moderate charges, of Mental Patients belonging to the educated classes, stands in a healthy and pleasant situation on Headington Hill, near Oxford. Voluntary and Temporary Patients are also received for treatment. The adjacent estate of HIGHFIELD PARK has recently been acquired and the house, which has been modernised and equipped with every comfort, is now available for mild and convalescent patients. Private suites can be arranged.

For further particulars apply to the Physician-Superintendent.

STRETTON HOUSE,

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A PRIVATE HOME for the treatment of gentlemen suffering from Mental and Nervous illness, including the allied Disorders of Alcoholism and the Drug Habit. All types of early Mental and Nervous Cases are received without Certificates as Voluntary Boarders. Bracing hill country. See "Medical Directory," p. 2328.—Apply to Medical Superintendent. 'Phone 10 P.O., Church Stretton.

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HOME FOR TWELVE MENTAL PATIENTS (LADIES).

Well-appointed private house. Home comforts and Trained Nursing Staff. Eminent Mental Specialist. Visiting Physician.

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Ladies and Gentlemen received for treatment under certificates, and without certificates as either VOLUNTARY or TEMPORARY PATIENTS, at a weekly fee of TWO GUINEAS, and upwards.

HOME for EPILEPTICS, MAGHULL

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FARMING and OPEN AIR OCCUPATION for PATIENTS

A few vacancies in 1st and 2nd Class Houses.

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A REGISTERED HOSPITAL FOR THE CARE AND TREATMENT OF LADIES AND GENTLEMEN SUFFERING FROM NERVOUS AND MENTAL DISORDERS.

Within two miles of the G.W. Railway and L.M. & S. Railway Stations at Gloucester, the Hospital is easily accessible by rail from London and all parts of the United Kingdom. It is beautifully situated at the foot of the Cotswold Hills, and stands in its own grounds of over 280 acres. Voluntary Boarders of both Sexes are also received for treatment.

Special accommodation for Lady Voluntary Boarders is also provided at the MANOR HOUSE, which has its own private grounds and is entirely separate from the main Hospital.

For particulars as to terms, &c., apply to G. W. T. H. FLEMING, M.R.C.S., L.R.C.P., D.P.M., Medical Superintendent.

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Large Gardens and Own Dairy

CLIFFDEN, TEIGNMOUTH, for Early and Convalescent Cases. A well-appointed house, with spacious balconies and extensive views of the South Devon Coast. Sub-tropical gardens. Own Dairy in 25 acres. Private road to beach.

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THE COPPICE, NOTTINGHAM.

HOSPITAL FOR MENTAL DISEASES.

President: The Right Hon. LORD BELPER.

This Institution is exclusively for the reception of a limited number of PRIVATE PATIENTS of both sexes, of the UPPER and MIDDLE CLASSES, at moderate rates of payment. It is beautifully situated in its own grounds, on an eminence a short distance from Nottingham, and commands an extensive view of the surrounding country; and from its singularly healthy position and comfortable arrangements affords every facility for the relief and cure of those mentally afflicted. Voluntary and Temporary Patients received. Occupational Therapy. For terms, &c., apply to the Medical Superintendent.

Telephone: 64117 Nottingham.

HEIGHAM HALL, NORWICH

A PRIVATE MENTAL HOME situated in 14 acres of well-wooded grounds. For Ladies and Gentlemen suffering from Nervous or Mental Illness. Voluntary Patients, Temporary Patients, and Patients under Certificates are admitted for Treatment. Fees: from 4 guineas a week upwards, according to requirements. A few vacancies exist for Ladies and Gentlemen at reduced fees on the recommendation of the Patient's own Physician.

Apply to Dr. J. A. SMALL.

Telephone: 80 Norwich. Telegrams: Small, 80 Norwich.

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Telephone: PINNER 234.

A Private Hospital for the Treatment and Care of Mental and Nervous Illnesses in both Sexes.

A modern country house, 12 miles from Marble Arch, in attractive and secluded surroundings. Fees from 10 guineas per week inclusive. Cases under Certificate, Voluntary and Temporary Patients received for treatment.

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FOR MENTAL DISORDERS, NORTHAMPTON

FOR THE UPPER AND MIDDLE CLASSES ONLY.

PRESIDENT: THE MOST HON. THE MARQUESS OF EXETER, C.M.G., A.D.C.

This Registered Hospital is situated in 120 acres of park and pleasure grounds. Voluntary patients, who are suffering from incipient mental disorders or who wish to prevent recurrent attacks of mental trouble, temporary patients, and certified patients of both sexes, are received for treatment. Careful clinical, bio-chemical, bacteriological, and pathological examinations. Private rooms with special nurses, male or female, in the Hospital or in one of the numerous villas in the grounds of the various branches can be provided.

WANTAGE HOUSE

This is a Reception Hospital, in detached grounds with a separate entrance, to which patients can be admitted. It is equipped with all the apparatus for the most modern treatment of Mental and Nervous Disorders. It contains special departments for hydrotherapy by various methods, including Turkish and Russian Baths, the prolonged immersion bath, Vichy Douche, Scotch Douche, Electrical Baths, Plombières treatment, &c. There is an operating Theatre, a Dental Surgery, and X-ray Room, an Ultra-violet Apparatus, and a Department for Diathermy and High Frequency treatment. It also contains Laboratories for bio-chemical, bacteriological, and pathological research.

MOULTON PARK

Two miles from the Main Hospital there are several branch establishments and villas situated in a park and farm of 650 acres. Milk, meat, fruit, and vegetables are supplied to the Hospital from the farm, gardens, and orchards of Moulton Park. Occupation therapy is a feature of this branch, and patients are given every facility for occupying themselves in farming, gardening, and fruit growing.

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The Seaside house of St. Andrew's Hospital is beautifully situated in a Park of 330 acres, at Llanfairfechan, amidst the finest scenery in North Wales. On the North West side of the Estate a mile of sea coast forms the boundary. Patients may visit this branch for a short seaside change or for longer periods. The Hospital has its own private bathing house on the seashore. There is trout fishing in the park.

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For terms and further particulars apply to the Medical Superintendent (TELEPHONE: No. 2356 and 2357 Northampton), who can be seen in London by appointment.

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FOR THE TREATMENT OF PULMONARY TUBERCULOSIS

Well situated on high ground and surrounded by pines and heather.
All rooms are fitted with electric light, wash basins with hot and cold water, and radiators.
X ray plant. Day and night nursing staff.

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A Private Hospital for the Care and Treatment of those of both sexes suffering from MENTAL DISORDERS.

Extensive grounds. Detached Villas. Chapel. Garden and Dairy Produce from own farm. Terms very moderate.

CONVALESCENT HOME AT BOURNEMOUTH Detached Villas standing in 12 acres of ornamental grounds, with tennis courts, etc., which Voluntary, Temporary or Certified Patients may visit by arrangement for long or short period.

Illustrated Brochure on application to the Medical Superintendent. The Old Manor, Salisbury. Telephone: Salisbury 2251.

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First opened in 1898 and rebuilt in 1925 on the Cotswold Hills seven miles from Cheltenham, for the treatment of Pulmonary and all other forms of Tuberculosis. Aspect S.S.W., sheltered from North and East, elevation 800 feet. Pure bracing air. SPECIAL TREATMENT by artificial PNEUMOTHORAX (X-Ray controlled), TUBERCULINS, and ULTRA-VIOLET RAYS is available when necessary without extra charge. X-RAY plant, Fully Equipped Dental Department, Electric Light Radiators, hot and cold basins and Wireless in all rooms. Up-to-date drainage. Full day & night Nursing Staff. **Terms 5 to 7½ Guineas a week inclusive.**

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HAYDOCK LODGE,

NEWTON-LE-WILLOWS, LANCASHIRE.

For the reception and treatment of PRIVATE PATIENTS of both sexes of the UPPER AND MIDDLE CLASSES suffering from Mental and Nervous Diseases, either voluntarily, temporarily, or under certificate. Patients are classified in separate buildings according to their mental condition. Situated in park and grounds of 400 acres. Self-supported by its own farm and gardens in which patients are encouraged to occupy themselves. Every facility for indoor and outdoor recreation. For terms, prospectus, etc., apply MEDICAL SUPERINTENDENT. *'Phone:* Ashton-in-Makerfield 7311. *Tele. Address:* Street, Ashton-in-Makerfield.

FAIRFORD RETREAT, Gloucestershire

(Within two hours of London.) **ESTABLISHED 1822.**

Home life for Ladies and Gentlemen MENTALLY AFFLICTED. Voluntary Patients received without Certificates. The Retreat is pleasantly situated in extensive grounds on the banks of the River Coine, a part of which celebrated trout stream flows through the Estate. There is every facility for sport and Occupational Therapy. The neighbourhood abounds in pleasant walks, and Fairford, being in the Cotswolds on a dry oolitic soil, is remarkably healthy. Own farm and dairy produce.

For terms, which are very moderate, apply to the proprietor. Dr. A. C. King-Turner, The Retreat, Fairford, Glos. Telephone 9.

PECKHAM HOUSE, 112, Peckham Road, London, S.E.15

Telegrams: "Alleviated, London." **Telephone: Rodney 2641 and 2642.**

The above House, which was established in 1826, is an Institution for the care and treatment of persons suffering from mental diseases and nervous disorders. Certified, Voluntary and Temporary patients are received. Separate houses for treatment and accommodation of special cases adjoin the Institution. There is a seaside branch, Kearsney Court, near Dover, to which patients may be sent for treatment or on holiday. Motor and carriage exercise is provided as required. Patients can avail themselves of a course of physical drill. Tennis Courts. Entertainment, dances, and indoor amusements held throughout the year. Terms from £3 3s. per week. Illustrated prospectus and further particulars can be obtained from the MEDICAL SUPERINTENDENT.

CHEADLE ROYAL HOSPITAL, Cheadle, Cheshire.

This REGISTERED HOSPITAL, with a SEASIDE BRANCH at Colwyn Bay, N. Wales, is for the treatment and care of those of the Upper and Middle Classes suffering from MENTAL AND NERVOUS DISEASES.

The Hospital is governed by a COMMITTEE, appointed by the TRUSTEES of the Manchester Royal Infirmary.

In addition to the Main Buildings there are separate villas. Extensive grounds. Hard and grass tennis courts, cricket and croquet grounds, and a court for badminton. There are also wireless installations. Golf may be had within easy distance. Occupational Therapy.

VOLUNTARY, TEMPORARY AND CERTIFIED PATIENTS received.

The Hospital is nine miles from Manchester, 50 minutes by rail from Liverpool, and 3½ hours from London.

For terms and further particulars apply to the Medical Superintendent, who may be seen in Manchester BY APPOINTMENT. *Telephone: Gatley* 2231 (3 lines).

CAMBERWELL HOUSE

Telegrams: "PSYCHOLIA, LONDON." **33, PECKHAM RD., LONDON, S.E.5.** **Telephone: Rodney 4242 (2 lines).**

For the treatment of MENTAL DISORDERS.

Also completely detached Villas for Mild Cases, with private suites if desired. Voluntary Patients received. Twenty acres of Grounds, Hard and Grass Tennis Courts, Putting Greens, Bowls, Croquet, Squash Rackets, Recreation Hall with Badminton Court, and all indoor amusements, including Wireless and other Concerts, Occupational Therapy, Calisthenics, and Dancing Classes. X-ray and Actino-therapy, Prolonged Immersion Baths, Operating Theatre, Pathological Laboratory, Dental Surgery, and Ophthalmic Department. Chapel.

Senior Physician: Dr. HUBERT JAMES NORMAN, assisted by three Medical Officers, also resident and visiting Consultants.

An illustrated Prospectus, giving fees which are strictly moderate, may be obtained upon application to the Secretary.

The Convalescent Branch is Hove Villa, Brighton, and is 200 feet above sea level.

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PENMAENMAWR, NORTH WALES.

All Modern Methods of Treatment Available.

Ideally situated for the treatment of Tuberculosis. Sheltered from E. & N.E. winds. Climate mild and bracing. Low rainfall, high average of sunshine. The Sanatorium is situated in its own park. There are miles of graduated walks through pine, gorse and heather, rising to 1,000 ft., and commanding extensive sea and mountain views. Central heating, electric light, X-ray installation. Wireless in all rooms. Full day and night nursing staff. Special milk supply from a tuberculin tested herd. Easily accessible from LONDON (4½ hours), MANCHESTER, LIVERPOOL, BIRMINGHAM and the North.

Resident Physicians: **Dennison Pickering, M.D.; S. A. Yaffe, M.D.**

For particulars apply to the Secretary, Pendyffryn Hall, Penmaenmawr, North Wales. 'Phone 20

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FORMBY-BY-THE-SEA, Nr. LIVERPOOL

Specially built and licensed for the care and treatment of a limited number of Ladies and Gentlemen suffering from NERVOUS and MENTAL breakdown. Voluntary and certified patients received. Ladies also admitted as Temporary Patients without certification. Terms moderate. *Apply*, RESIDENT PHYSICIAN, who may be seen at 31, Rodney Street, Liverpool, by appointment. *Tel. No.* 8 *Formby.*

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('Phone: Nuneaton 241)

Residential treatment of

Functional Nervous Disorders

including Alcoholism and other Addictions

(Certifiable cases are not received)

This beautiful mansion situated in the heart of the country (less than two hours from London by L.M.S.R.) and surrounded by charming pleasure grounds in which games and outdoor occupational therapy are available is devoted to the treatment of Functional Nervous Disorders by psychotherapeutic and ancillary methods.

Illustrated Brochure and particulars obtainable from A. E. CARVER, M.D., D.P.M., Resident Medical Superintendent

THE CLINIC

20 Devonshire Place
London, W.1

Tel.: Welbeck 4444 (20 lines)

A NURSING HOME FOR SURGICAL, MEDICAL AND MATERNITY CASES

Fees 10 gns. to 18 gns. per week (Average—14 gns.).
8 Operating Theatres.
150 State Registered Nurses.
2 Resident Medical Officers (for emergencies).

Patients only received under the supervision of their own Medical Practitioner.

Drugs and Dressings free (other than Proprietary Articles).
Illustrated Brochure on application to Secretary.

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MURTLE, DEESIDE, ABERDEENSHIRE

FOR THE DIAGNOSIS AND TREATMENT OF ALL FORMS OF TUBERCULOSIS

Managing Director: DAVID LAWSON, M.D., F.R.S.E.

Southern aspect. Low rainfall. Pure bracing air. Sheltered grounds. Beautiful surroundings. All modern equipment for diagnosis and treatment, including operating theatre. **No extra charge for X Rays, Artificial Pneumothorax, Ultra-Violet Light, or other special treatment.**

Day and night Nursing Staff. All bedrooms have central heating, electric light, hot and cold running water, and wireless (headphones). Comfortable and airy public rooms.

Medical Superintendent: J. M. JOHNSTON, M.B., M.R.C.S., D.P.H For terms and prospectus apply to the Secretary.

Telephone: Cults 107.

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New Lodge Clinic was founded in 1921 in order to provide for the scientific investigation and treatment of disease by a "team" of physicians and specialists.

All forms of non-infectious medical cases are admitted, special attention being paid to disorders of digestion and metabolism, arthritis, anæmias, asthma, heart and kidney disease, and functional and organic nervous disorders.

Particulars can be obtained on application to

The Secretary, New Lodge Clinic, Windsor Forest, Berks. *Telephone:* 181 & 182, Winkfield Row.

HOLLOWAY SANATORIUM, Virginia Water

A Registered Hospital for the Treatment of

Mental Disorders of the EDUCATED CLASSES

(Founded and Endowed by Thomas Holloway in 1885)

This Institution is situated in a beautiful and healthy locality within easy reach of London. It is fitted with every comfort. Patients can have Private Bedrooms and Special Nurses, as well as the use of General Sitting Rooms, at moderate rates of payment. Voluntary Patients can be admitted.

There is a Branch Establishment at CANFORD CLIFFS, BOURNEMOUTH, where Patients can be sent for a change and be provided with all the comforts of a well-appointed home.

For Terms, apply to the Resident Medical Superintendent—

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(under the direction of the Corporation)

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Newly-fitted Balneological and Electro-Medical and Russian Bath sections for recognised forms of Spa, etc., treatment, under mild winter climatic conditions.
Large Cooling Lounge, and "Vita" Glass Sun Lounge.
Warm Sea-Water Swimming Bath with modern filtration plant.
Assistants with C.S.M.M.G., and Bio-Physical qualifications.

The new illustrated 12-page Brochure post free on application.

H. Berkeley Hollyer, General Manager.
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Unrivalled suites of Baths, Turkish and Russian Baths, Aix and Vichy Douches, Massage: Plombières Treatment, Studa Chair, and Electric Installation for Baths and other Medical purposes, Dowsing Radiant Heat, Infra Red Light, Artificial Sunlight, d'Arsonval High Frequency, Diathermy, Nauheim Baths, Soapless Foam Baths, etc. "Certified" Milk from own farm. Large winter garden. Orchestra. Special provision for invalids. Night attendance. Over 60 trained Male and Female Nurses, Masseurs, Attendants, etc.

Resident Physicians: G. C. R. HARBINSON, M.B., B.Ch., B.A.O.(R.U.I.), R. MACLELLAND, M.D., C.M.(Edin.). **TERMS, 13s. to 18s. per day, inclusive of board.**

Illustrated Brochure C.J. and full information on request.

Telephone—No. 17 (3 lines). *Telegrams*—Smedleys, Matlock.

LA METAIRIE

Centre of Research and Medico-Psychological Treatments

(Near Nyon, on the Leman) Tel.: Nyon 95,626.

Carefully discriminated and graduated treatments of all nervous and mental affections. Happy environment, magnificent country, temperate climate.

Pathopsychological Institute annexe (Pupillography, &c.). Villa for abnormal children.

Head Physician: Dr. W. BOVEN, Professor of Psychiatry and Characterology at the University of Lausanne. (Consultation-room at Lausanne, by appointment; Tel.: Lausanne 25,838.)

Collaborators: Dr. O. Löwenstein, formerly Professor at the University of Bonn, inventor of the pupillographic method. Madame Dr. Calame.

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FOR HEALTH

Harrogate specialises in the Treatment of—Disorders of the Liver—congestion, cirrhosis, jaundice, cholecystitis, cholelithiasis, and tropical liver. Also in Diseases of the Skin—eczema, psoriasis, the coccal infections of the skin, etc. The Chronic Rheumatic Diseases—Arthritis, Fibrositis, Neuritis; Gout, Hyperplasia, Mucous Colitis, Functional Disorders of the Heart, Pelvic Disorders of Women, Convalescence from acute illness.

A wide range of Sulphur and Iron waters is available for dealing with the large group of disorders amenable to Spa treatment. Prescribed diets for Spa patients can be obtained at hotels and boarding houses without extra charge. **Complimentary and reduced price facilities for the Cure, Accommodation and Amusements are available for Members of the Medical Profession.**

Full details of Harrogate for Cure and Holiday will be sent free upon application to Spa Manager, Information Bureau, Harrogate, 2, (state if a medical enquiry).

HARROGATE
THE MODERN SPA

"IT'S QUICKER BY RAIL"

Cheap monthly return tickets to Harrogate from all stations. Any train, any day.

DR. BINSWANGER SANATORIUM BELLEVUE

KREUZLINGEN

LAKE OF CONSTANCE — SWITZERLAND

for Nervous and Mental cases

as well as all kinds of addiction

(Insulin shock treatment)

Doctor in charge: DR. LUDWIG BINSWANGER

Prospectus on application to the Management

BROOKE HOUSE, CLAPTON

A PRIVATE HOME for the treatment of Nervous and Mental Disorders in both sexes. Situated in nine acres of Pleasure Grounds.

Voluntary, Temporary, and Certified Patients received.

For further particulars apply—

Dr. ERNEST ROLLINS, Resident Physician.

Tel.: Clissold 1648.

HILL END HOSPITAL AND CLINIC

FOR THE PREVENTION AND TREATMENT OF MENTAL AND NERVOUS DISORDERS

(20 miles from London)

Ladies suffering from all forms of MENTAL ILLNESS are received for treatment, on modern lines, as Voluntary, Temporary or Certified Private Patients at the Hill End Hospital. Convalescent or mild cases can be treated in a delightful country mansion, with extensive grounds, known as

HIGHFIELD HALL,

situate about a mile away from the Hospital.

FEES TWO TO THREE GUINEAS PER WEEK.

For further particulars apply to the Medical Superintendent, W. J. T. KIMBER, L.R.C.P., D.P.M.

ST. ALBANS, HERTS

SPRINGFIELD HOUSE

'Phone: BEDFORD 3417. **Near BEDFORD**

For Mental Cases with or without Certificates.

Ordinary Terms: Five Guineas per week (including Separate Bedrooms for all suitable cases without extra charge).

For forms of admission, &c., apply to the Resident Physician, CEDRIC W. BOWER.

INTERVIEWS IN LONDON BY APPOINTMENT.

ASHWOOD HOUSE

KINGSWINFORD, STAFFORDSHIRE

An old-established home-like Institution for the treatment of MENTAL AFFECTIONS in BOTH SEXES. Probationary cases and non-certified patients are received as well as those regularly certified.

Full particulars as to reception terms, &c., may be obtained from the Resident Medical Officer.

London Hospital, E.1.—Applications

are invited for the post of SURGICAL FIRST ASSISTANT AND REGISTRAR. Candidates must be Fellows of the Royal College of Surgeons. The appointment is for one year, but is renewable annually on application for two further periods of one year. Salary £300 per annum, payable by the Hospital and Medical College jointly.

Applications should arrive at the Hospital not later than by the first post on Saturday, February 12th.

ARTHUR G. ELLIOTT, House Governor.

Metropolitan Borough of Islington.

APPOINTMENT OF ASSISTANT MEDICAL OFFICER.

The Council invite applications from members of either sex whose age must not exceed forty years for the appointment of an Assistant Medical Officer whose duties will consist mainly of maternity and child welfare work to be carried out under the direction of the Medical Officer of Health. The duties will include certain administrative work in the wards of two voluntary Welfare Centres, clinical work at the Council's Day Nursery, artificial sunlight treatment, diphtheria immunisation clinics, and such other duties in connection with maternity and child welfare and public health as may be required by the Council.

Candidates must be registered Medical Practitioners with the Diploma of Public Health or Degree of Sanitary Science. They must also possess special children's and infants' experience and knowledge of the treatment of nutritional disorders of infancy, and previous experience of maternity and child welfare work, ultra-violet light therapy and diphtheria immunisation.

The salary for the appointment will be at the rate of £600 per annum, rising by annual increments of £25 to £750 per annum. The candidate appointed will be required to devote whole time to the duties of the office and will not be allowed to practise privately. The appointment will also be subject to the rules and regulations of the Council from time to time in force relating to their officers.

Applications, accompanied by copies of not more than three recent testimonials, on forms to be obtained from the undersigned, must be delivered at the address stated below not later than Wednesday, 26th January, 1938, endorsed "Appointment of Assistant Medical Officer."

Canvassing, directly or indirectly, will disqualify.

W. ERIC ADAMS, Town Clerk.

Town Hall, Upper-street, N.1. 30th December, 1937.

ROYAL NAVAL MEDICAL SERVICE

Vacancies exist for MEDICAL OFFICERS in the Royal Navy, and applications are invited for entry in April, 1938.

Candidates below the age of 28 years are preferred and they must be registered under the Medical Acts. No examination in professional subjects will be held but candidates will be required to attend for interview by a Selection Board.

Selected candidates will be entered for Service for a period of three years in the first instance, which may be extended to five years at the discretion of the Admiralty.

At the end of three years' service officers may retire with a gratuity of £400, but those who serve for five years will receive £1,000.

At the end of five years' Short Service permanent commissions will be given to selected officers who wish to make the Naval Medical Service their permanent career. Officers transferred to the permanent list will receive a gratuity of £1,000 (less Income Tax).

Opportunities are available for officers on the permanent list to specialise, and ample provision is made for Post-graduate study.

Copies of the regulations for entry and conditions of Service, including rates of pay and allowances, may be obtained from the Medical Director-General of the Navy, Admiralty, S.W.1, and from the Deans of all Medical Schools.

Applications for entry from intending candidates must be received not later than 28th February, 1938.

Royal Masonic Hospital,
Ravenscourt Park, W.6.

A post of RESIDENT SURGICAL OFFICER (Male), one of three Residents, will be vacant on 1st March, 1938. Salary at the rate of £250 per annum, with board, residence, and laundry. The appointment is for six months. Candidates must be registered, and must have held resident appointments at a general hospital. The Institution (145 Beds at present, but to be increased) is primarily for paying patients of both sexes of moderate means usually unable to afford ordinary Nursing Home treatment, &c.

Applications, stating full particulars, to be sent on or before 24th inst., to the Honorary Secretaries, from whom further information may be obtained.

Poplar Hospital for Accidents,
East India Dock-road, Poplar, E.14.

The committee invites applications for the appointment of SECOND RESIDENT OFFICER (Male) at a salary at the rate of £175 per annum, all found.

Candidates must have held appointments as House Surgeon at a Hospital.

Applications must be accompanied by a statement of the candidates' qualifications and forwarded to the Secretary, with three recent testimonials, not later than Tuesday, January 18th, 1938. The appointment is for a period of six months.

The National Temperance Hospital,
Hampstead-road, London, N.W.1.

Applications are invited for the post of MEDICAL REGISTRAR, which will become vacant on 1st February, 1938. Candidates must be Graduates in Medicine of a university of the United Kingdom, or a Member of the Royal College of Physicians of London. Honorarium 40 guineas.

Applications, accompanied by not more than three testimonials, to be addressed to the Secretary by January 19th.

The National Temperance Hospital,
Hampstead-road, London, N.W.1.

Applications are invited for the post of HONORARY ANÆSTHETIST. The successful candidate will be required to attend on Thursday mornings and in cases of emergency. Thirty copies of application, giving full particulars, together with copies of not more than three recent testimonials, should be sent to the Secretary by January 19th.

Candidates will be required to call upon members of the Honorary Staff.

The Hospital for Sick Children,
Great Ormond-street, London, W.C.1.

Applications are invited from registered Medical Practitioners for the post of CASUALTY MEDICAL OFFICER (salary £175 per annum). Duties to commence on the 7th February, 1938.

The appointment is a half-time one and non-resident, tenable in the first instance for six months.

Applications must be received by noon on Monday, the 31st January, 1938, and candidates must be prepared to attend for interview at the Hospital on Wednesday, 2nd February, 1938, at 4.45 P.M.

Full details of the appointment and forms of application are obtainable from the undersigned.

January, 1938. HERBERT F. RUTHERFORD, Secretary.

Royal National Orthopædic Hospital.

Applications are invited for the posts of HOUSE SURGEON (Two, Male, unmarried) at this hospital's COUNTRY BRANCH AT BROCKLEY HILL, STANMORE, MIDDLESEX. 278 Beds (160 cases of surgical tuberculosis).

Salary £150 per annum, with board, quarters, and laundry. The appointments are for six months. Duties to commence, one on February 1st and one on March 1st.

Applications, with copies of testimonials, should be sent to the Secretary, 234, Great Portland-street, London, W.1, not later than January 18th.

Borough of Ealing.

OPHTHALMIC SURGEON.

Applications are invited from registered Medical Practitioners of recognised consultant and specialist status in ophthalmology for the position of Ophthalmic Surgeon in connexion with the Council's Health Centres. The successful applicant will be required to attend on three sessions a week during 40 school weeks, or 120 sessions in the year, for the purpose of examining and advising patients referred to him by the medical staff of the School Medical and Maternity and Child Welfare Services.

The remuneration will be £275 per annum.

Canvassing will be a disqualification.

Forms of application and copies of terms of appointment may be obtained from Dr. Thomas Orr, Medical Officer of Health, Town Hall, Ealing, W.5, to whom applications, accompanied by three recent testimonials and endorsed "Appointment of Ophthalmic Surgeon," must be delivered not later than the 20th January.

R. H. WANKLYN, Town Clerk.

Town Hall, Ealing, W.5.

Borough of Ealing.

ASSISTANT MEDICAL OFFICER OF HEALTH, RESIDENT ASSISTANT MEDICAL OFFICER.

Applications are invited for the above appointments from duly qualified Medical Men with a Public Health qualification.

ASSISTANT MEDICAL OFFICER (Man).

A candidate must have had at least three years' experience in the practice of his profession. The person appointed will be required to carry out medical inspection of school-children and child welfare work and perform such other duties as may be allotted as Assistant to the Medical Officer of Health and School Medical Officer.

He will be required to devote his whole time to the duties, and will not be allowed to engage in private practice. The salary will be at the rate of £600 per annum, rising by £25 per annum to £700.

RESIDENT ASSISTANT MEDICAL OFFICER (Man, single).

A candidate must have had experience in the treatment of cases of infectious disease at an Isolation Hospital. The duties will include the medical care of patients in the Chiswick and Ealing Isolation Hospital, South Ealing, and the medical inspection and treatment of school-children at schools and health centres in the borough of Ealing.

The person appointed will reside at the Isolation Hospital where furnished rooms and board will be provided.

He will be required to devote his whole time to the duties and will not be allowed to engage in private practice. The salary will be at the rate of £350 per annum, rising by £25 per annum to a maximum of £550, plus board and residence, as indicated above and valued at £150 per annum.

A deduction of 5 per cent. will be made from the salary in each case in accordance with the provisions of the Local Government and Other Officers' Superannuation Act, 1922, which has been adopted by the Council, and the appointment will be subject to passing the Council's medical examination in connexion therewith. Canvassing will be a disqualification.

Copies of the application forms and terms of appointments can be obtained from Dr. Thomas Orr, Medical Officer of Health, Town Hall, Ealing, W.5, to whom applications, accompanied by copies of not more than three recent testimonials, must be delivered not later than the 20th January.

R. H. WANKLYN, Town Clerk.

Town Hall, Ealing, W.5.

Evelina Hospital for Sick Children,

Southwark, S.E.

Applications are invited for the post of HOUSE PHYSICIAN (Male) for six months from the 12th February, 1938 (first two months in the Casualty Department). Salary at the rate of £120 per annum, with board and residence.

Applications, with copies of three recent testimonials, should be sent to the undersigned, from whom particulars can be obtained, not later than first post on the 19th January.

W. H. SIDNELL, House Governor.

The Belgrave Hospital for Children,

Clapham-road, S.W.9.

The Committee of Management invite applications for the post of ASSISTANT PHYSICIAN. Candidates must be Graduates in Medicine of an English University and Fellows or Members of the Royal College of Physicians of London. There is an honorarium of 50 guineas per annum attached to the post.

Applications, with copies of testimonials, must be delivered to the undersigned by Tuesday, February 1st, from whom further information may be obtained.

By order.

THOMAS CLAPHAM, Secretary.

Hampstead General and North-West

LONDON HOSPITAL, Haverstock Hill, N.W.3.

APPOINTMENT OF HOUSE SURGEON.

Applications are invited from unmarried Medical Men for the Resident appointment of House Surgeon for six months, vacant on February 1st next. Salary £100 per annum.

Applications to be made on the prescribed form, together with copies of not more than three testimonials, should be returned to the Secretary by January 18th next.

Metropolitan Hospital,

London, E.8.

Applications (Male) are invited to fill a vacancy on the HONORARY ANÆSTHETIST'S STAFF. The duties will be to attend the hospital each Wednesday morning for an Ear, Nose, and Throat Session. There is an honorarium of £25 per annum attached to the post.

Applicants should apply to the undersigned by the 19th January next giving such evidence of their fitness for the post as they care to submit.

FRANK JENNINGS, House Governor and Secretary.

King's College Hospital.

The Committee of Management invite applications for the post of ASSISTANT PHYSICIAN.

Applications, with copies of three testimonials, should be sent before February 8th, 1938, to the House Governor, King's College Hospital, Denmark-hill, S.E.5, from whom particulars of the duties may be obtained. Candidates must be Members or Fellows of the Royal College of Physicians of London.

The Queen's Hospital for Children,

Hackney-road, London, E.2.

HOUSE SURGEON required 1st March, 1938.

CASUALTY OFFICER required 1st March, 1938. Some Ophthalmic work additional.

Six months' appointment. Salary at the rate of £100 per year, with board, lodging, and laundry.

Applications must be made on forms to be obtained from the undersigned, and must be sent in, with copies of not more than four testimonials, on or before the 4th February, 1938.

CHARLES H. BESSELL, Secretary.

1st January, 1938.

The Hospital for Sick Children,

Great Ormond-street, London, W.C.1.

Applications are invited for the post of ASSISTANT PATHOLOGIST (Male).

Candidates, who must possess a legal qualification to practise, are required to send in their applications, addressed to the Secretary, accompanied by copies of not more than three testimonials, given specially for the purpose, before 12 o'clock on Monday, 31st January, 1938.

The appointment is made for one year, and is non-resident.

Salary £400 per annum, with facilities for Private Pathological Practice.

The selected candidate will be required to take up his duties not later than 16th February, 1938, preferably earlier.

All candidates must be in attendance to appear before the Joint Committee on Wednesday, 2nd February, 1938, at 4.45 P.M.

Forms of application, copy of the rules, and details of the appointment, will be supplied on application to the undersigned.

January, 1938. HERBERT F. RUTHERFORD, Secretary.

The Hospital for Sick Children,

Great Ormond-street, London, W.C.1.

There are vacancies for two ANÆSTHETISTS.

Candidates must be registered Medical Practitioners and be prepared to take up their duties at an early date.

The appointment is for one year, but is renewable, and carries with it an honorarium of £15 15*s.* per annum, and an allowance of £6 6*s.* to provide a substitute during annual leave.

Candidates are invited to send in their applications, addressed to the Secretary, with copies of not more than three testimonials written specially for the purpose, before 12 o'clock on Monday, 31st January, 1938, and must appear personally before the Joint Committee at their meeting on Wednesday, 2nd February, 1938, at 4.45 P.M.

Forms of application and copies of the Rules are obtainable from the undersigned.

HERBERT F. RUTHERFORD, Secretary.

January, 1938.

The Middlesex Hospital, W.1.

DEPARTMENT OF PSYCHOLOGICAL MEDICINE.

A vacancy is hereby declared for an HONORARY PHYSICIAN in charge of the Department of Psychological Medicine. Candidates must be Fellows or Members of the Royal College of Physicians of London, and should be both Psychiatrists and have had experience of the modern treatment of Psycho-neuroses.

Applications (thirty copies) must be submitted to the undersigned by the 12th February, 1938.

By order of the Board.

S. R. C. PLIMSOLL, Secretary-Superintendent.

National Hospital, Queen-square, W.C.1.

HOUSE SURGEON.

Applications are invited for the post of House Surgeon. The work is concerned almost entirely with the surgery of the central nervous system, and it is desirable that candidates should have had previous experience of general surgery.

Applications, accompanied by three recent testimonials, should be sent to the undersigned not later than Monday, January 24th. The salary is £100 per annum, with board and lodging.

GODFREY H. HAMILTON, Secretary.

Jewish Maternity Hospital,

Underwood-street, London, E.1.

RESIDENT MEDICAL OFFICER required, to take up duties on 1st February. Board, residence, and laundry provided, with salary at rate of £50 per annum. The appointment is for four months with option of extension to six months. Applicants may be Male or Female.

Applications, accompanied by copies of three testimonials, should be sent to the Secretary, immediately.

The London Chest Hospital,

Victoria Park, E.2.

(Bus, Tram, and Rail, Cambridge Heath L. & N.E.Railway.)

A vacancy for a HOUSE PHYSICIAN (Male) will occur on March 1st. Six months' appointment Salary at the rate of £100 per annum. Board, residence, and laundry provided.

Applications, with copies of testimonials (three), should be sent to the Secretary on or before Monday 31st January, 1938.

Metropolitan Borough of Bethnal GREEN.

DENTAL ANÆSTHETIST.

The Bethnal Green Borough Council invites applications from experienced Dental Anæsthetists for the unestablished part-time appointment of Anæsthetist at the Council's Dental Clinic in connection with the Maternity and Child Welfare Centre.

There are two (occasionally three) sessions per month. Fee three guineas per session.

Applications should be addressed to the Medical Officer of Health, 15, Old Ford-road, E.2.

S. P. FERDINANDO, Deputy Town Clerk.

Town Hall, Bethnal Green, E.2.

MINISTRY OF PENSIONS

The Minister of Pensions proposes to appoint a limited number of Medical Officers to the established staff of the Ministry for clinical and administrative duties either at Headquarters or in the Provinces and applications are invited from REGISTERED MEDICAL PRACTITIONERS (Men) for appointment to these posts.

The scale of salary is £750 per annum, rising by annual increments of £30 to a maximum of £1000.

The appointments will be subject to the usual Civil Service conditions as to superannuation, &c.

Candidates must be registered medical practitioners of not less than five years' standing and have held House appointments in General (preferably teaching) Hospitals. Generally, preference will be given to those possessing University degrees in Medicine and Surgery.

It is desired that applicants should be not less than thirty-five years of age. Consideration will, however, be given to suitable candidates below this age, but, if appointed, the entering salary in such cases would be proportionately reduced.

Successful candidates will be required to serve in the first instance in an unestablished capacity for a period of six months in a Ministry Hospital, at the expiration of which they will, if their service has been satisfactory, have to satisfy the Civil Service Commissioners as to health, &c., before appointment to established status.

Canvassing through Members of Parliament or in other ways will render a candidate liable to disqualification.

Applications must be made on forms which can be obtained from the Secretary (Establishments), Ministry of Pensions, 18, Great Smith-street, London, S.W.1.

The closing date for applications will be 3rd February, 1938.

London County Council.

Applications invited from Medical Practitioners of at least one year's standing to undermentioned positions. Candidates must have held resident appointment in a general hospital for at least six months. Married quarters not available.

ASSISTANT MEDICAL OFFICERS (Grade I.).—Salary £350–£25–£425, with board, lodging, and washing.

(*a*) LAMBETH HOSPITAL, Brook-drive, Kennington-road, S.E.11.—Obstetrical experience essential; general medical duties.

(*b*) ST. GEORGE-IN-THE-EAST HOSPITAL, Raine-street, Wapping, E.1.—Surgical duties, orthopædic and gynæcological experience essential.

*(*c*) ST. MARY ABBOTS HOSPITAL, Marloes-road, Kensington, W.8.—Surgical duties, fracture experience desirable.

(*d*) ST. MARY, ISLINGTON, HOSPITAL, Highgate Hill, N.19.—General medical duties and anæsthetics.

(*e*) ST. PETER'S HOSPITAL, Fulbourne-street, Whitechapel, E.1.—Surgical and part medical duties.

* No accommodation for a woman.

Application forms obtainable (stamped addressed foolscap envelope necessary) from Medical Officer of Health (Staff Division, 2B), County Hall, S.E.1, returnable by 31st January.

Canvassing disqualifies.

London County Council.

Applications invited from registered Medical Practitioners for inclusion in a panel for filling Vacancies for Temporary PART-TIME ASSISTANT MEDICAL OFFICERS for School Medical Work. Rate of pay 30s. for a session of 2½ hours.

Special experience of medical examination of children is necessary. Employment will depend upon the needs of the work but ultimately candidates engaged will be expected to work three sessions a week during school terms.

Application forms (stamped addressed foolscap envelope necessary) from Medical Officer of Health (S.D.5), County Hall, Westminster Bridge, S.E.1, returnable by 29th January. Canvassing disqualifies.

South Eastern Hospital for Children,

Sydenham, S.E.26.
(100 Beds.)

Recognised by the Examining Board for Post-graduate Study for the Diploma of Child Health.

Applications are invited for the post of HONORARY PATHOLOGIST to the above Hospital (ordinary attendance two half days a week). A honorarium of £50 per annum will be paid. Immediate applications to be made, stating age and experience, with copies of three testimonials, should be sent to the Honorary Secretary of the Medical Committee at the Hospital.

Royal National Hospital for CONSUMPTION AND DISEASES OF THE CHEST, VENTNOR, ISLE OF WIGHT.

SECOND ASSISTANT RESIDENT MEDICAL OFFICER (Male), unmarried, required for six months commencing 15th February, 1938. Salary at the rate of £200 per annum, with board, residence, and laundry allowance. The successful candidate will be eligible for promotion to First Assistant Resident Medical Officer for a further six months at a salary at the rate of £300 per annum with similar emoluments. Candidates must be fully qualified in Medicine and Surgery, and previous experience in Tuberculosis and Bacteriological work will be an advantage.

Applications, in candidate's own handwriting, stating age, qualifications, and experience (with one copy of three recent testimonials), to be sent to the Medical Superintendent, Royal National Hospital for Consumption, Ventnor, Isle of Wight, not later than Friday, 28th January, 1938.

Rural District Council of Dartford.

PART-TIME MEDICAL OFFICER.

The Council invite applications for the appointment of a Part-time Medical Officer at a salary of £250 per annum. The successful candidate will be under the general direction of the Medical Officer of Health, but the duties will be mainly in connexion with the Council's Maternity and Child Welfare work.

Applications, on forms to be obtained from the undersigned, should reach me by not later than the 24th January, 1938, endorsed "Medical Officer."

EUSTACE J. HOBBS, Clerk to the Council.

Council Offices, West Hill, Dartford, 5th January, 1938.

Christie Hospital and Holt Radium INSTITUTE, WITHINGTON, MANCHESTER 20.

Applications are invited for the post of RESIDENT SURGICAL OFFICER at the above Hospital, to commence duties immediately.

The appointment is for a period of six months, but will be renewable. Previous resident appointments essential.

Salary at the rate of £150 per annum, plus residence, board, and laundry.

Applications, with full details of previous experience, together with copies of testimonials should be sent to the Superintendent immediately.

The Royal Infirmary and Royal HOSPITAL, SHEFFIELD.

FRACTURE CLINICS.

Applications are invited for the two appointments as FIRST ASSISTANT to these Clinics. The appointments are whole time, and limited to Hospital practice. They are non-resident and are tenable for one year.

Candidates will be eligible for re-election for a further period, consideration will then be given to an extension of the appointment.

The salary attached to each post is at the rate of £300 per annum.

Applications to be forwarded to the Secretary of either Hospital, from whom further particulars may be obtained if desired.

6th January, 1938.

Lancashire Mental Hospitals Board.

BROCKHALL CERTIFIED INSTITUTION FOR MENTAL DEFECTIVES, LANGHO, NR. BLACKBURN.

APPOINTMENT OF DEPUTY MEDICAL SUPERINTENDENT.

Applications are invited for the whole-time appointment of Deputy Medical Superintendent at the above Certified Institution.

The salary is £750 per annum, rising by annual increments of £25 to a maximum of £850 per annum. An additional £50 per annum will be paid for the possession of a Diploma in Psychological Medicine.

The appointment will be subject to the provisions of the Asylums and Certified Institutions (Officers' Pensions) Act, 1918.

Applicants are required to submit their applications on a form to be obtained from the undersigned, and applications endorsed "Deputy Medical Superintendent" should be sent to or delivered at my office not later than 12 noon on Monday, the 7th day of February, 1938.

Canvassing, either directly or indirectly, will be a disqualification. GEORGE ETHERTON, Clerk of the Board.

County Offices, Preston, January, 1938.

University of Aberdeen.

LECTURESHIP IN BACTERIOLOGY.

The University Court will shortly proceed to the appointment of a Lecturer in Bacteriology in the University of Aberdeen.

The salary proposed is £500 to £600, according to qualifications and experience.

Persons desirous of being considered for the office are requested to lodge their names with the Secretary to the University on or before 18th February, 1938.

The conditions of appointment and form of application may be obtained from the undersigned.

H. J. BUTCHART,
Secretary to the University of Aberdeen.

The University, Aberdeen.

AUCKLAND HOSPITAL BOARD, NEW ZEALAND

THE AUCKLAND HOSPITAL BOARD INVITES APPLICATIONS FOR THE FOLLOWING POSTS:

1. RADIOTHERAPIST (X-Ray Therapy and Radium).—The successful candidate will be required to take full control of the Therapy Section of the Radiological Department. The appointment is whole time. Salary will commence at £1000 per annum, rising by annual increments of £100 to £1200 per annum.
2. RADIOLOGIST (Diagnosis).—To take full charge of the Diagnostic Section of the Radiological Department. The appointment is whole time. Salary will commence at £1000 per annum, rising by annual increments of £100 to £1200 per annum.

Preference will be given to candidates possessing the D.M.R.E. or equivalent qualification.

Full information and forms of application may be obtained at the office of the High Commissioner of New Zealand, 415, Strand, London, W.C.2.

H. A. SOMMERVILLE, Secretary.

Auckland, New Zealand, 9th December, 1937.

County of East Suffolk.

JOINT APPOINTMENT OF
MEDICAL OFFICER OF HEALTH FOR WOODBRIDGE URBAN DISTRICT,
MEDICAL OFFICER OF HEALTH FOR DEBEN RURAL DISTRICT, AND
ASSISTANT COUNTY MEDICAL OFFICER.

Applications are invited from Male registered Medical Practitioners holding the Diploma of Public Health for the combined post of Medical Officer of Health for the Woodbridge Urban and the Deben Rural Districts and Assistant County Medical Officer.

The duties as Assistant County Medical Officer will include public health work, school medical inspection, and maternity and child welfare and tuberculosis work. The person appointed will be required to devote the whole of his time to the service of the three Councils.

The total commencing salary will be £776 per annum on the basis of a decision by the Advisory Committee set up under Section X of the Askwith Memorandum. Motor-car allowance will be paid according to the County Council's scale for the use of the Officer's car.

The person appointed will be required to pass a medical examination and to contribute to the Council's Superannuation Fund.

Applications must be made upon a form to be obtained, together with further particulars, from the County Medical Officer of Health, County Hall, Ipswich, to whom the completed forms should be returned not later than Saturday, 29th January.

CECIL OAKES, Clerk of the County Council.

County Hall, Ipswich, 8th January, 1938.

Torbay Hospital, Torquay.

(168 Beds.)

HOUSE PHYSICIAN (Male) required immediately. Salary £175 per annum, with board, residence, and laundry. Candidates must be fully qualified, registered and unmarried.

Applications, stating age, nationality, qualifications, and experience, to be received as early as possible by the undersigned, with copies of not more than three recent testimonials.

E. L. GRIST, Secretary.

January 10th, 1938.

LOCUM TENENS.

Owing to illness, applications are invited for a LOCUM TENENCY in respect of the above.

County Borough of Walsall.

MANOR HOSPITAL. (300 Beds.)

APPOINTMENT OF EAR, NOSE, AND THROAT SURGEON.

The Health Committee invite applications for the above appointment from gentlemen of recognised Consultant rank to conduct a Combined Consultative and Operative Clinic at the Manor Hospital once weekly. Salary £200 per annum.

Applications to be sent to the undersigned not later than 21st January, 1938.

JAMES A. M. CLARK, Medical Officer of Health.

Health Department, Council House, Walsall.

13th January, 1938.

The Royal Hospital, Wolverhampton.

(Incorporated under Charter.)

HOUSE SURGEON required (General Surgery), duties to commence forthwith. The Hospital contains 300 beds, includes the usual special departments and is recognised by the various Examining Bodies for a part of the requisite attendance on Medical and Surgical Practice.

Candidates must be registered under the Medical Acts, and unmarried.

The appointment is for six months. Salary at the rate of £100 per annum. Board, furnished rooms, and laundry provided. Applications, with copies of testimonials, to be forwarded to the undersigned.

W. H. HARPER, House Governor.

Wolverhampton, 10th January, 1938.

East Suffolk and Ipswich Hospital.

(350 Beds. 7 Residents.)

Wanted, 1st February, CASUALTY OFFICER (Male—British). Salary at the rate of £144 per annum, with board, apartments, and laundry.

Applications, stating age, qualifications, and experience, to be sent to the undersigned together with copies of three recent testimonials.

ARTHUR GRIFFITHS, Secretary.

The Hospital, Ipswich, 15th January, 1938.

Royal Halifax Infirmary.

(250 Beds.)

RADIOLOGIST.

Applications are invited for the above appointment from fully qualified Registered Medical Practitioners who have had experience in diagnostic and therapeutic radiology and who possess a recognised Diploma in Radiology.

The salary will be £700 per annum, and a private practice is to be purchased. Particulars and conditions can be obtained from the undersigned.

Applications, stating age, qualifications, and experience, accompanied by the originals of not more than three recent testimonials, must be received by the undersigned not later than Thursday, 20th January, 1938. Special application forms are not required.

A. MIDGLEY, Secretary.

10th January, 1938.

Horton General Hospital, Banbury,

OXON.
(60 Beds.)
RESIDENT MEDICAL OFFICER.

Applications are invited for the post of Resident Medical Officer (Female). Salary £150 per annum, with board and laundry. This appointment is for a period of six months commencing February 12th, 1938.

Candidates must be duly registered. Applications, stating age and accompanied by copies of any testimonials, to be sent to the undersigned not later than Thursday, 20th January, 1938.

By order,
RICHARD H. PRESCOTT,
Secretary and House Governor.

Keighley and District Victoria

HOSPITAL, YORKSHIRE (WEST RIDING).
(124 Beds.) (Two Residents.)

APPOINTMENT OF SECOND RESIDENT MEDICAL OFFICER.

Duties to commence if possible 14th February, 1938.

Applications are invited from registered Medical Practitioners (Female) for the above appointment. Proof of registration to be furnished before appointment.

Salary £120 per annum, together with full residential emoluments. Term, six months, renewable.

Applications, with particulars of age, experience, nationality, together with copies of two recent testimonials, to be sent to the undersigned not later than Wednesday, 26th January, 1938.

J. YOUNG, Secretary-Superintendent.

Ancoats Hospital, Manchester.

CASUALTY OFFICER (Lady or Gentleman), twelve months' appointment. Salary £250 per annum, with luncheon and tea provided. Applicants who have passed the Primary Fellowship Examination of one of the Royal Colleges of Surgeons will be preferred. The successful applicant will do duty for the Resident Surgical Officer at alternate week-ends and other scheduled times.

Applications, stating age, experience, and qualifications, to be forwarded to the undersigned on or before 26th January, together with copies of three recent testimonials.

By order of the Board.
HERBERT J. DAFFORNE,
General Superintendent and Secretary.

The Royal Portsmouth Hospital,

PORTSMOUTH.
(Six Resident Medical Officers.)

Applications are invited for the posts of:—
(1) HOUSE PHYSICIAN (Male).
(2) HOUSE SURGEON (Male) to the Orthopædic and Fracture Department.
(3) CASUALTY OFFICER (Male).

Salaries £130 per annum each, with board, &c.

All to commence on the 1st March.

Six months' appointments and eligible on completion of term for extension or other resident posts.

Applications, stating age, nationality, and full details, with copies of three testimonials, to be sent to the undersigned on or before 14th February, 1938, from whom all particulars can be obtained.

B. WAGSTAFF, Secretary.

Vacancy. — Resident Physician at

Ruthin Castle, North Wales. Must have held House Office. Salary £200 per annum, with board and lodging. Quarters provided in or near the Castle. Appointment may be renewed at the end of six months.

Apply, stating age, experience, and giving personal references, to SECRETARY, Ruthin Castle, North Wales.

Liverpool Dental Hospital,

Pembroke-place, 3.

The Committee invites applications for the post of HON. ANÆSTHETIST. Attendance—one half day per week.

Applicants must possess a Medical qualification. Further particulars may be obtained from the Hon. Director, by whom applications must be received not later than Wednesday, February 2nd, 1938.

Kent County Ophthalmic and Aural

HOSPITAL, MAIDSTONE.
(109 Beds.)

Applications are invited for the post of OPHTHALMIC HOUSE SURGEON, which post becomes vacant on the 1st February, 1938. The appointment is for six months, but a senior post at a higher salary may be given after that period if mutually agreed upon. Candidates must be duly qualified and registered Medical Practitioners, single, and of British birth and nationality, and should have experience of refractions. Salary at the rate of £200 per annum, with board, residence, and laundry. The Hospital is recognised by the Examining Board for the D.O.M.S.

Applications, stating age and qualifications, together with copies of not more than three testimonials, should be sent to the undersigned.

JOHN W. STRICKLAND, Secretary.

St. Anne's Home, Altrincham,

CHESHIRE.

Wanted, a RESIDENT SURGICAL OFFICER for the above Hospital (50 Beds). Must be registered. Salary £200 per annum, with board, apartments, &c. This Hospital is the Ear, Nose, and Throat Department of the Manchester Hospital for Consumption and Diseases of the Ear, Nose, Throat, and Chest, and duties include attendance on two mornings a week at the Out-Patient Department, Manchester.

Applications, with copies of testimonials, to be sent not later than January 22nd, to W. HUNT, Secretary, 45, Hardman-street, Manchester 3.

County Borough of Blackburn.

LADY ASSISTANT MEDICAL OFFICER OF HEALTH AND ASSISTANT SCHOOL MEDICAL OFFICER.

Applications are invited from duly registered Women Practitioners for the appointment of Assistant Medical Officer of Health and Assistant School Medical Officer to act under the direction and supervision of the Medical Officer of Health who is also School Medical Officer. The salary is at the rate of £600 per annum, rising by annual increments of £25 to £700 per annum.

The person appointed must, prior to the 1st April, 1930, have held the appointment of Medical Officer of an Ante-natal Clinic with the approval of the Minister, or have had at least three years' post-graduate experience in the practice of her profession and special experience of practical midwifery and ante-natal work.

Preference will be given to candidates who have enjoyed special post-graduate experience in the treatment of venereal diseases, and of diseases of children, and who hold a registrable Degree or Diploma in Public Health.

Applications to be made on forms to be obtained from the Medical Officer of Health, Victoria-street, Blackburn, and returned to him not later than Saturday, the 22nd January, 1938, endorsed "Assistant Medical Officer of Health."

CHAS. S. ROBINSON, Town Clerk.

Town Hall, Blackburn, 1st January, 1938.

Ancoats Hospital, Manchester.

ASSISTANT PATHOLOGIST, Lady or Gentleman, whole-time appointment—no private work allowed. Salary £400 per annum; live out. Luncheon and tea provided. The appointment is for twelve months and is renewable. During the first six months a certain amount of research work will be conducted.

RADIOLOGICAL OFFICER, Lady or Gentleman, whole-time appointment, non-resident, no private work allowed. Salary £400 per annum, with luncheon and tea. The appointment is for twelve months and is renewable. Candidates must hold the D.M.R.E. diploma.

Applications for the above posts, stating age and particulars of qualifications and experience, to be forwarded to the undersigned on or before 19th January, 1938, together with copies of three recent testimonials.

By order of the Board.

HERBERT J. DAFFORNE, General Supt. and Secretary.

Southend-on-Sea General Hospital.

235 Beds. 8 Residents.
Hon. Specialist Staff of 19 members.

Applications are invited for the post of FIRST HOUSE SURGEON. Duties to commence on 1st February, 1938.

The appointment is for six months. Salary at the rate of £100 per annum, with board, residence, and laundry. Candidates must be registered (Male) Practitioners. The Hospital is recognised by the Royal College of Surgeons in respect of this post.

Applications, together with copies of two recent testimonials, should be sent to the undersigned not later than 17th January.

P. H. CONSTABLE, Secretary.

Derbyshire County Council.

WALTON SANATORIUM, Near CHESTERFIELD.

JUNIOR RESIDENT ASSISTANT MEDICAL OFFICER (Male).

Applications are invited for the post of Junior Resident Assistant Medical Officer at the Derbyshire County Sanatorium. Candidates with previous institutional experience of tuberculosis will be preferred, and practical experience of artificial pneumothorax work will be considered an additional qualification. Candidates must be single.

Salary at the rate of £350 per annum, rising by annual increments of £25 to £450 per annum, together with board, lodging, &c.

The successful candidate will devote the whole of his time to the duties of the office.

The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and the person appointed will be required to pass a medical examination.

Application forms may be obtained from the undersigned, to whom they must be returned, together with copies of not more than three recent testimonials, on or before January 20th, 1938.

W. M. ASH, County Medical Officer.

New County Offices, Derby, January 3rd, 1938.

City of Leeds.

ASSISTANT MEDICAL OFFICER.

Applications are invited from qualified and registered Medical Practitioners for the post of Assistant Medical Officer for Maternity and Child Welfare. Applicants must have had not less than three years' post-graduate experience, including experience in General Medicine and Surgery, and special experience in Obstetrics and Ante-natal work, and in the treatment of Children's Diseases and Disease of Women. Preference will be given to candidates possessing the D.P.H.

Under the present Grading Scheme of the Council, the commencing salary for the post is £500 per annum and the maximum salary £700, with annual increments of £25, subject to satisfactory service, and the first increment will take effect on the 1st April following the completion of twelve months' service.

The person appointed will be required to pass a medical examination, and to contribute to the Superannuation Fund established under the Local Government and Other Officers' Superannuation Act, 1922. The appointment will be terminable by one month's notice on either side.

Form of application and particulars as to the duties of the appointment may be obtained from the undersigned.

Applications, endorsed "Maternity and Child Welfare Officer," together with copies of three recent testimonials, must be delivered at the Health Department, 12, Market-buildings, Vicar-lane, Leeds, 1, not later than 10.30 A.M. on Saturday, January 22nd, 1938.

Canvassing in any form, either directly or indirectly, will be a disqualification.

J. JOHNSTONE JERVIS, Medical Officer of Health.

Bootle General Hospital, Bootle,

LIVERPOOL, 20.
(103 Beds.)

One HOUSE PHYSICIAN.
Two HOUSE SURGEONS.
One CASUALTY OFFICER.

Applications are invited for the above posts tenable for six months from the 1st April next.

The salary attached to each post is £150 per annum, with board, residence, and laundry.

Applicants must be duly qualified and registered under the Medical Acts.

Applications, with copies of testimonials, should reach me as soon as possible. A. J. COOPER, Secretary-Superintendent.

Grimsby and District Hospital.

(164 Beds.)

Applications are invited for the posts of:—
(a) SENIOR HOUSE SURGEON (Male).
(b) JUNIOR HOUSE SURGEON (Male).

Remuneration at the rate of £200 and £150 per annum respectively, with board, residence, &c. Candidates must be fully qualified and registered, and previous Hospital appointment experience is desirable. Duties to commence 1st February, 1938. The successful candidates will be appointed for six months, and may apply for re-election.

Applications, stating age, qualifications, experience, and not more than three recent testimonials, to be forwarded to the undersigned immediately.

H. B. COATES, Secretary-Superintendent.

4th January, 1938.

Manchester Northern Hospital.

(General Hospital, 113 Beds.)
Cheetham Hill-road, MANCHESTER, 8.

Applications are invited for the posts of RESIDENT HOUSE PHYSICIAN and RESIDENT HOUSE SURGEON. Salary £100 per annum, with board and residence.

The appointments are for six months from mid-February, 1938 (successful candidates are eligible for reappointment for a further six months).

Applications, stating age, qualifications, and nationality, with copies of not less than three recent testimonials, should be sent to Mr. JAMES C. DANIELS, Secretary, 38, Barton Arcade, Manchester, 3, by 20th January.

County Mental Hospital, Whittingham,
PRESTON, LANCS.

RESIDENT JUNIOR ASSISTANT MEDICAL OFFICER, single, required. Salary £500, rising by annual increments of £25 to £600. No emoluments. £50 per annum is paid when the successful candidate obtains the Diploma in Psychological Medicine. The successful candidate will be required to live in the Hospital and charges at the rate of £150 per annum will be made for board, furnished apartments, and washing.

Candidates must be duly registered under the Medical Act.

Applications, stating age, which must not exceed thirty, qualifications, and copies of testimonials, should reach the Medical Superintendent not later than the morning of 18th January, 1938. The successful candidate will be required to undergo medical examination. The appointment is subject to the provisions of the Asylums Officers' Superannuation Act, 1909, and the Regulations of the Lancashire Mental Hospitals Board.

City of Birmingham Education
COMMITTEE.

APPOINTMENT OF ASSISTANT SCHOOL MEDICAL OFFICER (MALE OR FEMALE).

Applications are invited for the appointment of Assistant School Medical Officer (Male or Female).

Candidates must have had at least three years' experience in the practice of their profession subsequent to obtaining a registerable qualification. Salary according to "Askwith" Scale (£500 to £700 by annual increments of £25). £10 per annum travelling expenses allowed. Forms of application (to be returned not later than first post on Monday, 31st January, 1938), together with further information, may be obtained from the undersigned on receipt of a stamped addressed foolscap envelope. Communications should be endorsed "Assistant School Medical Officer." Canvassing will disqualify.

P. D. INNES, Chief Education Officer.

Education Office, Margaret-street, Birmingham, 3,
1st January, 1938.

County Borough of Huddersfield.
ST. LUKE'S HOSPITAL.

RESIDENT MEDICAL OFFICER.

Applications are invited from registered Medical Practitioners for above appointment, which is for one year. Salary £230 per annum, with board, residence, and laundry.

Applications, stating age, training, qualifications, and experience, should be forwarded to the Medical Officer of Health, Huddersfield, so as to reach him not later than 19th January, 1938. SAMUEL PROCTER, Town Clerk.

Town Hall, Huddersfield, January, 1938.

Leicester Royal Infirmary.
(500 Beds.)

RESIDENT ANÆSTHETIST.

Applications are invited for the above post, for a period of six months in the first instance.

Salary £150 per annum for the first six months, £200 per annum for the second six months, and £225 for the third six months, together with board, residence, and laundry.

Applications, giving full particulars, accompanied by copies of three recent testimonials, should be forwarded to the undersigned forthwith. GEO. W. COOLING, House Governor.

January, 1938.

The Children's Hospital,
KING EDWARD VII MEMORIAL,
BIRMINGHAM, 16.
Out-patients' Department.

With a view to improving the Out-patient Services, the Board invites applications for the following posts:—

RECEIVING ROOM OFFICER, who must be a Pædiatrician, to attend from 9 A.M. to 1 P.M., and who will see all new cases attending in the mornings, including casualties. Salary £250 per annum.

SENIOR CASUALTY HOUSE SURGEON (Resident). Salary £125 per annum.

FIRST ASSISTANT TO THE ORTHOPÆDIC DEPARTMENT, who will assist at the Orthopædic Clinic on Thursday mornings and attend a Fracture Clinic one morning weekly. Salary £100 per annum.

In addition to the above, the personnel of the Out-patient Department includes a whole-time First Assistant to the Ear and Throat Department and a Junior Casualty House Surgeon.

The appointments are for one year, with eligibility for reappointment.

Particulars of duties, &c., can be obtained from the undersigned. The duties to commence on 31st March, 1938.

Applications, together with copies of testimonials, should be sent to the undersigned.

HAROLD F. SHRIMPTON, House Governor.

21st December, 1937.

Taunton and Somerset Hospital,
TAUNTON.

HOUSE SURGEON (Male) required end of January. Salary rate of £125 per annum, board, residence, and laundry, and retention of certain fees.

Applications, with copies of not more than three recent testimonials, to F. J. J. STACEY, Secretary.

Ingham Infirmary, South Shields.

Wanted, JUNIOR HOUSE SURGEON (Male). Salary £150 per annum, with board, residence, and laundry. No out-visiting. Candidates must hold registered qualifications in medicine and surgery. The appointment will be terminable by one month's notice.

Applications, stating age and accompanied by copies (which will not be returned) of recent testimonials, to be sent to the undersigned, from whom further particulars may be obtained.

JOHN POTTER, Secretary.

The Jessop Hospital for Women,
SHEFFIELD.
(151 Beds.)

The Board of Management invite applications for the post of RESIDENT ANÆSTHETIST (Female), for a period of six months, commencing immediately.

Salary £100 per annum, together with board, residence, and laundry.

The candidate appointed will be expected to carry out other House Surgeon duties.

Applications, stating age, together with copies of testimonials, should be addressed to the undersigned immediately.

DAVID OSWALD, Superintendent and Secretary.

West Kent General Hospital
(Incorporated),
MAIDSTONE. (136 Beds.)

Applications are invited for the post of HOUSE PHYSICIAN, who must be a Male of British nationality, and unmarried.

He will have charge of thirty Medical Beds and sixteen Maternity Beds. Experience in midwifery is essential.

Salary at the rate of £175 per annum, with board, apartments, and laundry.

Candidates must possess registered qualifications.

Applications, stating qualifications and experience, together with copies of testimonials, should be sent to the undersigned on or before 3rd February, 1938.

The successful candidate will be required to take up residence on the 15th February, 1938.

EDWARD J. GREGG, House Governor and Secretary.

Royal Victoria Infirmary,
NEWCASTLE-UPON-TYNE.

The House Committee by Resolution declare vacant the office of HONORARY SURGEON.

According to statutory provision every candidate must be a registered Graduate in Surgery of any University recognised by the General Council of Medical Education and Registration of the United Kingdom, or a Registered Fellow, Member, or Licentiate of one of the Royal Colleges of Surgeons of the United Kingdom, provided that he is practising as a Surgeon and not as a General Practitioner.

Applications must be sent to the House Governor and Secretary, Royal Victoria Infirmary, Newcastle-upon-Tyne, not later than Thursday, 27th January, 1938.

The appointment will be made on the 3rd February, 1938.

Personal canvassing will be considered a disqualification for office. S. DUNSTAN, House Governor and Secretary.

10th January, 1938.

City of Liverpool.

RESIDENT ASSISTANT MEDICAL OFFICERS.
WALTON HOSPITAL. (1837 Beds.)
SMITHDOWN-ROAD HOSPITAL. (1220 Beds.)
MILL-ROAD INFIRMARY. (762 Beds.)

Applications are invited for the above appointments which fall vacant on 1st April, 1938.

The appointments are for a period of one year at a salary of £200 per annum, together with the usual residential allowances. Canvassing will be deemed a disqualification.

Applications to be made on forms obtainable from the Medical Officer of Health, Municipal Annexe, Liverpool, 2, to be endorsed "Resident Assistant Medical Officer," and returned to the undersigned so as to be received not later than 31st January, 1938. W. H. BAINES, Town Clerk.

Municipal Buildings, Dale-street, Liverpool, 2,
January, 1938.

City of Liverpool.

RESIDENT ASSISTANT MEDICAL OFFICERS (MALE AND FEMALE.)

ALDER HEY HOSPITAL. (952 Beds.)

Applications are invited for the above appointments which fall vacant on 1st April, 1938. The appointments are for a period of one year at a salary of £200 per annum, together with the usual residential allowances. Canvassing will be deemed a disqualification.

There is a large Ear, Nose, and Throat Department in the Hospital, and one of the selected candidates will be given the opportunity of working in this special branch.

Applications to be made on forms obtainable from the Medical Officer of Health, Municipal Annexe, Liverpool, to be endorsed "Resident Assistant Medical Officer," and returned to the undersigned so as to be received not later than 25th January, 1938. W. H. BAINES, Town Clerk.

Municipal Buildings, Dale-street, Liverpool, 2,
January, 1938.

The Gloucestershire Royal Infirmary
AND EYE INSTITUTION, GLOUCESTER.
(225 Beds. Five residents.)

Applications are invited for the post of RESIDENT SURGICAL OFFICER (Male). Salary at the rate of £200 per annum, with board, residence, and laundry. Candidates must be fully qualified and unmarried, and have held previous house appointments. The appointment is for twelve months, which may be extended.

Applications, stating age, qualifications, and nationality, together with not less than three recent testimonials, should be received by the undersigned not later than Wednesday, January 26th.

The elected candidate will be required to enter upon his duties on Thursday, February, 3rd next.

January 6th, 1938. F. J. SYMONS, Secretary.

Princess Alice Hospital, Eastbourne.
(Voluntary General Hospital, 120 Beds; two House Surgeons.)

RESIDENT HOUSE SURGEON (Male) required on 7th February, 1938. Salary at the rate of £150 per annum, with board and laundry.

Applications from registered Practitioners, accompanied by copies of three recent testimonials, should be delivered to the undersigned by the first post on Thursday, 27th January, 1938.

10th January, 1938. W. RUSSELL RUDALL, Secretary.

City of Liverpool.

RESIDENT ASSISTANT MEDICAL OFFICER (MALE) FOR ORTHOPÆDIC WARDS, ALDER HEY HOSPITAL.

Applications are invited for the above appointment at the Alder Hey Children's Hospital (956 Beds), Liverpool, to take up duty on the 1st April, 1938, for a period of six months at a salary of £200 per annum, together with the usual residential allowances. 180 Beds are set aside for Orthopædic Diseases of Children, and these include open-air wards for surgical tuberculosis. Also there is a large amount of fracture and other orthopædic work of an acute nature. The person appointed, in addition to the Orthopædic work, will be required to undertake other routine duties in the Hospital under the direction of the Medical Superintendent. Previous experience in Orthopædic work is desirable, and the Hospital affords ample opportunity for gaining special experience in this work. Canvassing will be deemed a disqualification.

Applications to be made upon forms obtainable from the Medical Officer of Health, Municipal Annexe, to be endorsed "Resident Assistant Medical Officer (Orthopædic)," and returned to the undersigned so as to be received not later than Monday, 24th January, 1938. W. H. BAINES, Town Clerk.

Municipal Buildings, Liverpool, 2, January, 1938.

County Borough of Rotherham.

OBSTETRIC MEDICAL OFFICER AND DEPUTY MEDICAL SUPERINTENDENT, ALMA-ROAD HOSPITAL.

Applications are invited from fully qualified Medical Practitioners for the post of Obstetric Medical Officer and Deputy Medical Superintendent at the Alma-road Hospital, Rotherham, at a salary of £750 per annum, less emoluments to the value of £85.

Candidates must be qualified, registered Medical Practitioners, and must have held previous resident appointments in maternity hospitals, and have had experience in ante-natal work.

The officer appointed will be responsible for the obstetric work at the Alma-road Hospital and at Ferham House Municipal Maternity Home, and in addition will be required to undertake duties in the ante-natal, post-natal, and gynæcological services; organise the maternity emergency service, and assist in the supervision of the district midwives service and other duties assignable to midwifery.

The appointment is subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and the successful candidate will be required to pass a medical examination as to physical fitness.

The appointment will be terminable by three months' notice on either side.

Applications, stating age, experience, and qualifications, accompanied by copies of not more than three recent testimonials and endorsed "Obstetric Medical Officer and Deputy Medical Superintendent," should be sent to the undersigned not later than Tuesday, 1st February.

Forms of application can be obtained from the Medical Officer of Health, Public Health Department, Town Hall, Rotherham. CHAS. L. DES FORGES, Town Clerk.

Municipal Offices, Rotherham, 11th January, 1938.

The Buchanan Hospital,
ST LEONARDS-ON-SEA.
(103 Beds.)

HON. SURGEON.

Applications are invited for the post of Hon. Surgeon to the above Hospital.

The appointment will be made subject to the statutes and rules of the Hospital, copies of which may be obtained from the undersigned.

Any candidate canvassing any member of the Elective Committee shall be disqualified.

Applications, together with twelve copies of three recent testimonials, must be sent to the undersigned on or before Friday, 4th February, 1938. FRANK HART, Secretary.

UNIVERSITY OF CAPE TOWN

SENIOR ASSISTANT IN ANATOMY.

The University of Cape Town invites applications for the post of Senior Assistant in the Department of Anatomy; salary £800 per annum, rising by annual increments of £25 to a maximum of £900 per annum.

Candidates must hold a medical qualification and should have had previous teaching experience. The successful candidate will be expected to undertake research work in addition to his teaching duties. Ability to teach in both official languages (English and Afrikaans) will be a recommendation.

Applications must reach the Secretary, Office of the High Commissioner for the Union of South Africa, South Africa House, Trafalgar-square, London, W.C.2 (from whom forms of application (quadruplicate) and a memorandum giving the conditions of appointment may be obtained) not later than the 15th February, 1938. Applicants, in addition to submitting copies of testimonials, must give the names of three referees, and must state the earliest date on which they would be able to assume duty.

Kent County Mental Hospital,
MAIDSTONE.

ASSISTANT MEDICAL OFFICER (Male) required. Commencing salary, inclusive of emoluments, £509 per annum, rising by annual increments of £25 to £659 per annum.

Excellent facilities for working for higher examinations and for attending lectures for the Diploma in Psychological Medicine, for which Diploma an additional £50 per annum is paid.

Previous experience not essential.

The appointment is pensionable under the Asylums Officers' Superannuation Act, 1909.

Candidates must be fully qualified, registered, single, and not more than thirty-five years of age.

Applications, giving full particulars, with copies of three recent testimonials, and endorsed "A.M.O." on envelope, should be sent to the Medical Superintendent of the Hospital at an early date.

Applications for locum tenens would also be considered at the same time.

THE ARMY DENTAL CORPS

Applications are invited from dental surgeons for appointment to a limited number of commissions in The Army Dental Corps.

Candidates, who should not be over twenty-eight years of age, will for the present be selected for commissions without competitive examination, but will be required to present themselves in London for interview and physical examination. They must hold the degree or diploma of a British University or College of Surgeons, and be registered under the Dentists Acts or Medical Acts.

Successful candidates will, in the first instance, be given short service commissions for six years, at the end of which period they will retire with a gratuity of £1000, unless they have been granted permanent commissions. Permanent commissions will be given to officers selected from among those who wish to make the Army their permanent career.

Particulars, including Regulations for Admission, pay and allowances, and forms of application may be obtained on request either in writing or in person to the DIRECTOR, Army Dental Service, The War Office, London, S.W.1.

Preston and County of Lancaster
ROYAL INFIRMARY.

APPOINTMENT OF RESIDENT ANÆSTHETIST.

The Board of Management invite applications from Lady Doctors with special experience of or holding a Diploma in the administration of anæsthetics for the post of Resident Anæsthetist.

The appointment in the first instance will be for a period of six months, at a salary at the rate of £200 per annum, with board, residence, and washing. Afterwards the appointment may be extended by agreement for a further period of service, at a salary at the rate of £250 per annum, with board, residence, and laundry.

Applications, stating age, qualifications, and particulars of experience, together with copies of testimonials, should be addressed to the undersigned on or before the 21st instant.

JOHN GIBSON, Superintendent and Secretary.

10th January, 1938.

Preston and County of Lancaster Royal
INFIRMARY.

The Board of Management invite applications for the post of Part-time MEDICAL OFFICER to the Venereal Diseases Department. Candidates should have had a special experience in the treatment of the above diseases.

Minimum fees £350 per annum.

The appointment will be subject to the approval of the Ministry of Health.

Particulars of the duties and terms of appointment may be obtained from the undersigned, to whom applications should be forwarded on or before the 21st instant.

JOHN GIBSON, Superintendent and Secretary.

10th January, 1938.

GOVERNMENT OF BAHRAIN
PERSIAN GULF

Qualified doctor required as GOVERNMENT MEDICAL OFFICER to take charge of new hospital, medical and surgical, village dispensaries and public health.

Age between thirty and forty, British born.

Initial salary Rs. 1400/- per month, rising by bi-annual increments of Rs. 50/- per month to Rs. 1800/- per month. (One rupee = 1s. 6d.) Provident fund Rs. 150/- per month. Agreement in first place for five years. Leave after every two years' service at rate of forty-five days for each year's service. Free passage on joining and once in every four years when proceeding on leave. Free furnished house and car.

Applications, accompanied by copies of three testimonials, to be sent by Air Mail to THE ADVISER, Bahrain Government, Bahrain, Persian Gulf.

County Mental Hospital,
RAINHILL, NEAR LIVERPOOL.

Wanted, ASSISTANT MEDICAL OFFICER (Female) Locum Tenens, required for two to three months. Seven guineas per week with board, lodging, and laundry.

Apply immediately, giving full particulars of experience, &c., to the MEDICAL SUPERINTENDENT, County Mental Hospital, Rainhill, near Liverpool.

11th January, 1938.

County Council of the West Riding
OF YORKSHIRE.
SCOTTON BANKS SANATORIUM.

APPOINTMENT OF SENIOR ASSISTANT MEDICAL OFFICER AND DEPUTY MEDICAL SUPERINTENDENT.

The County Council of the West Riding of Yorkshire invite applications from registered Medical Practitioners (Female) for the appointment of Senior Assistant Medical Officer and Deputy Medical Superintendent (resident) at the Scotton Banks Sanatorium, near Knaresborough, for Women (100 Beds) and children (100 Beds).

Candidates should have previously held an appointment as House Physician or House Surgeon and experience in Pulmonary and Non-pulmonary Tuberculosis and Anæsthetics will be an advantage.

Salary £450 per annum, rising by annual increments of £25 to £550 per annum.

Further particulars and forms of application may be had from the undersigned, and applications, together with not more than three recent testimonials, must be sent to me not later than Monday, 31st January, 1938.

J. CHARLES MCGRATH, Clerk of the County Council.
County Hall, Wakefield, January, 1938.

Surrey County Council.

ASSISTANT MEDICAL OFFICER.

Applications are invited for the appointment of an Assistant Medical Officer (Female). Applicants must possess a qualification in Public Health, and have had experience in the Medical Inspection of School-children, in Maternity and Child Welfare, and in the examination and certification of mentally defective children. The officer appointed will be required to undertake such other Public Health duties as may be allocated to her. She will be on the staff of the County Medical Officer of Health, must reside in the County of Surrey, and devote her whole time to the work. Salary £600 per annum, rising by annual increments of £20 to £700 per annum. Travelling expenses in accordance with the Council's scale will be allowed.

The appointment will be subject to the approval of the Ministry of Health and of the Board of Education, to the successful candidate passing a medical examination, to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and to the Staffing Regulations of the Council, which provide, inter alia, that appointments may be determined at any time by three months' notice.

Applications, stating age, qualifications, and experience, together with copies of three recent testimonials, should be made on the prescribed form and sent to the County Medical Officer of Health, County Hall, Kingston-upon-Thames, from whom copies of the application form may be obtained and to whom any inquiries relating to the appointment should be addressed.

Last day for receipt of applications, Wednesday, 26th January, 1938.

Canvassing, directly or indirectly, will disqualify.

DUDLEY AUKLAND, Clerk of the County Council.
County Hall, Kingston-upon-Thames, 12th January, 1938.

The Royal Army Medical Corps
ASSOCIATION, 85, Eccleston-square, S.W.1 (Telephone: Victoria 2722), supplies qualified Dispensers, Book-keepers, Laboratory Assistants, Sanitary Assistants, Male Nurses, Mental and Special Treatment Orderlies, Dental Clerk Orderlies, Porters, Caretakers, &c., without charge to respective employers.

Typewriting.—Specialists in Typing
Medical and Scientific Papers, Lectures, Theses, and Books. Highest recommendations. Shorthand typists always available. Proof-reading, indexing. Translations in all European languages.—Margaret Watson Ltd., 16, Palace Chambers, Bridge-street, S.W.1. WHItehall 3838.

Doctor (retiring) highly recommends
his SECRETARY. Good shorthand-typist, accounts. Present post twelve years. Free end of January.—Address No. 344, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

An opportunity of some Honorary
Work in a small hospital in the south or west of England would be gratefully welcomed by a Bacteriologist, retiring shortly on superannuation but not useless. Hospital and public health bacteriology, histology.—Address, No. 348, THE LANCET Office 7, Adam-street, Adelphi, W.C.2.

Wanstead (near). — Old-established
PRACTICE. Income £700. Panel 600. Premium £1200. Vendor going abroad.—Address, No. 350, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

Resident Patients.—Doctors desiring
accommodation for private patients (mental, neurasthenic, invalid, &c.) may have, post free, illustrated BOOKLET describing residences, &c., of numerous colleagues in all parts—town, country, and seaside—who receive such patients.—Apply, Manager, British Medical Bureau, Tavistock House South, Tavistock-square, London, W.C.1

London.—Cora Hotel,
Upper Woburn-place, near B.M.A. Headquarters. Accommodates 235 visitors. Modern comforts.
Excellent table. A.A. and R.A.C. recommended.
Room, bath, and table d'hôte breakfast, 8s. 6d.
A few rooms 9s. 6d. and 10s. 6d. per person.

HARLEY STREET AND MEDICAL DISTRICT
For all types of available accommodation.
BERTRAM & CO.
Surveyors and Estate Agents.
43, New Cavendish-street, W.1. Welbeck 3703.

Wimpole Street Bargain.—
RENT ON LEASE £400 p.a. This excellent House produces about £390 p.a., leaving in addition 2 consulting-rooms, waiting-room, 8 bedrooms, 2 bathrooms available.
BERTRAM & CO., 43, New Cavendish-street, W.1.

Small Consulting Room in Harley
Street district required by Psychotherapist, M.B. Camb. Whole-time preferred, or would consider part-time. Moderate rent essential.—Address, No. 351, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

Harley Street and District.—A number
of excellent CONSULTING ROOMS are available for full and part-time use at moderate rents. Particulars on application.—ELGOOD & Co., 10, Henrietta-street, Cavendish-square, W.1. Lang. 2601.

ESTABLISHED 1845.
ELLIOTT, SON AND BOYTON
(H. C. Rowe, F.S.I.),
6, VERE STREET, CAVENDISH SQUARE, W.1,
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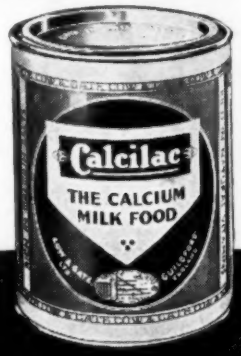

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Engagements	8,650,035
ASSETS	
Coin, Notes and Balances with the Bank of England ...	53,968,247
Balances with, and Cheques on other Banks	18,700,856
Money at Call and Short Notice	25,449,442
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Bills Discounted	30,625,876
British Treasury Bills ...	52,532,678
Advances to Customers and other Accounts ...	208,198,218
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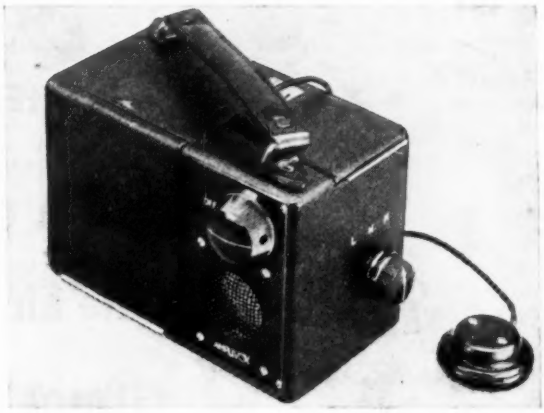

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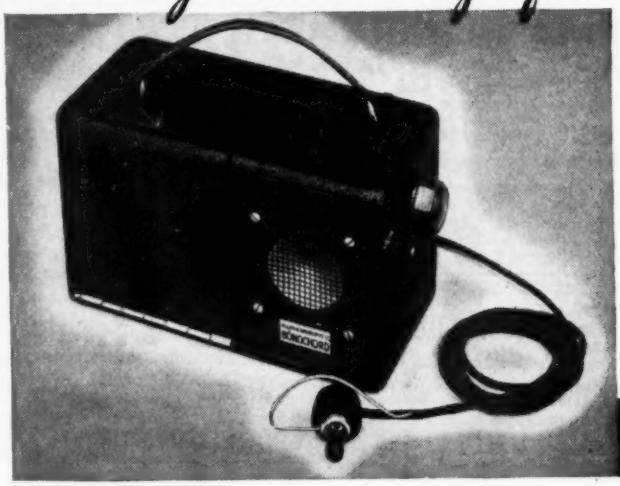

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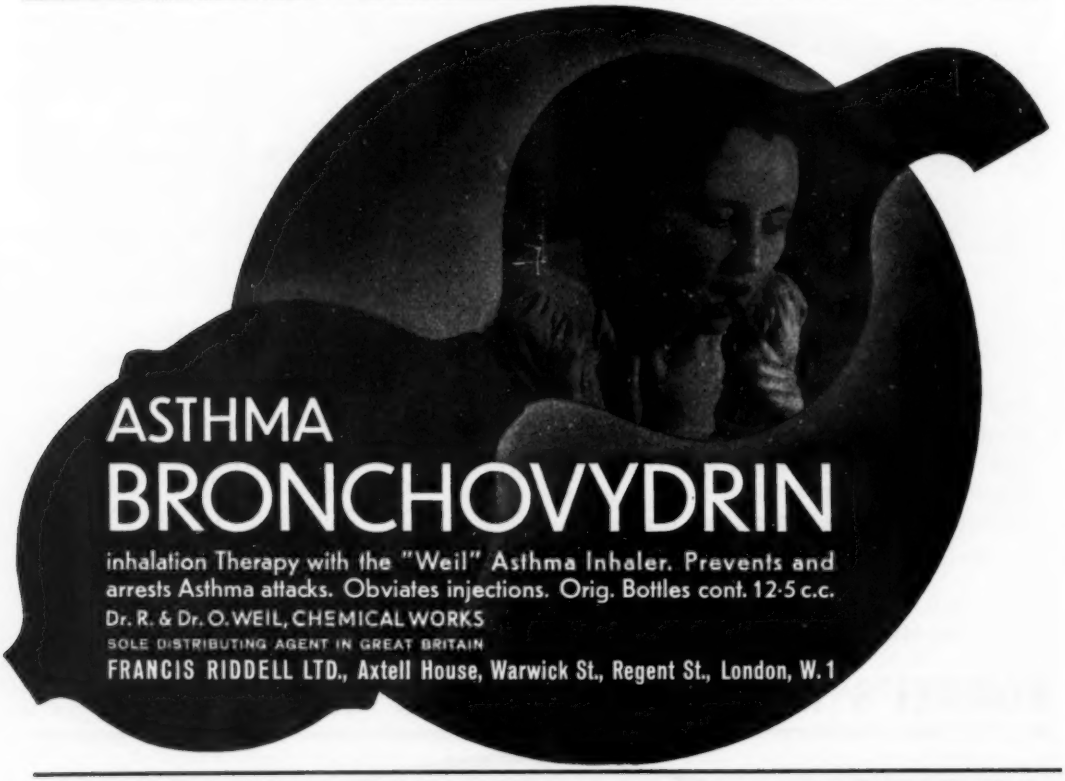

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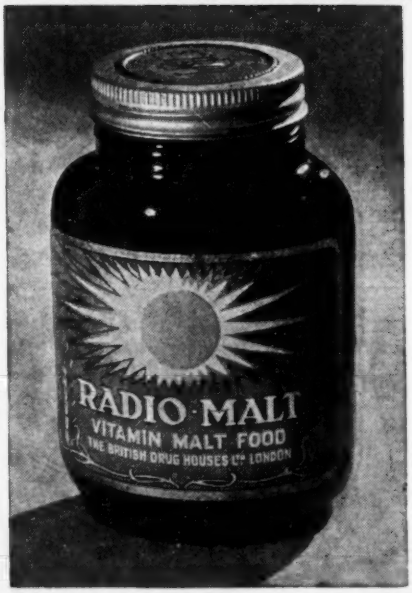

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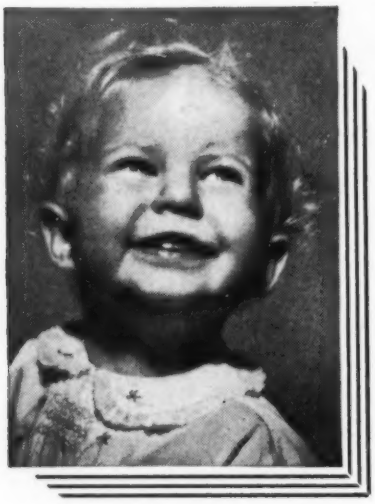

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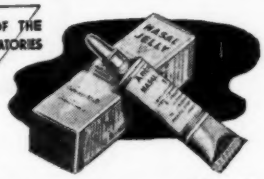

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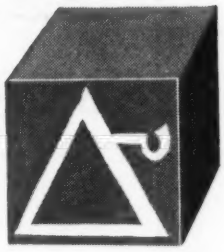
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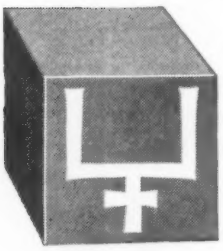
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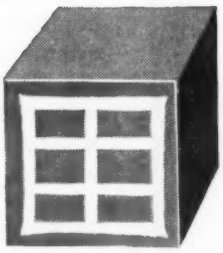
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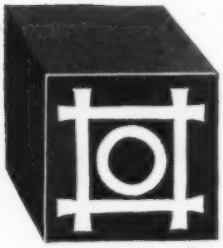
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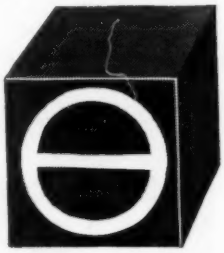
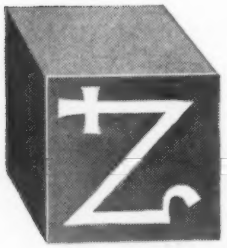
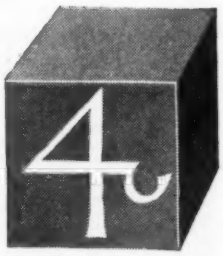

SALT


CALCIUM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The symbols depicted above were among those used in antiquity.

Alka-Zane *for* Acidosis

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The advantages of "Proctocaine" over other solutions have been found[1] to be as follows:

1. **Its effect is almost certain.**
2. **It produces anæsthesia or hypo-anæsthesia for periods varying from 7 to 28 days or longer.**
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5. **Even large quantities of it at one sitting have not been found to produce any local reaction if injected properly.**
6. **Its injection is painless if made slowly.**
7. **In no case did it produce severe after-pain.**

[1] *British Medical Journal*, 1935, November 16th, p. 938.

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5 c.cm., " " 6, 8/6
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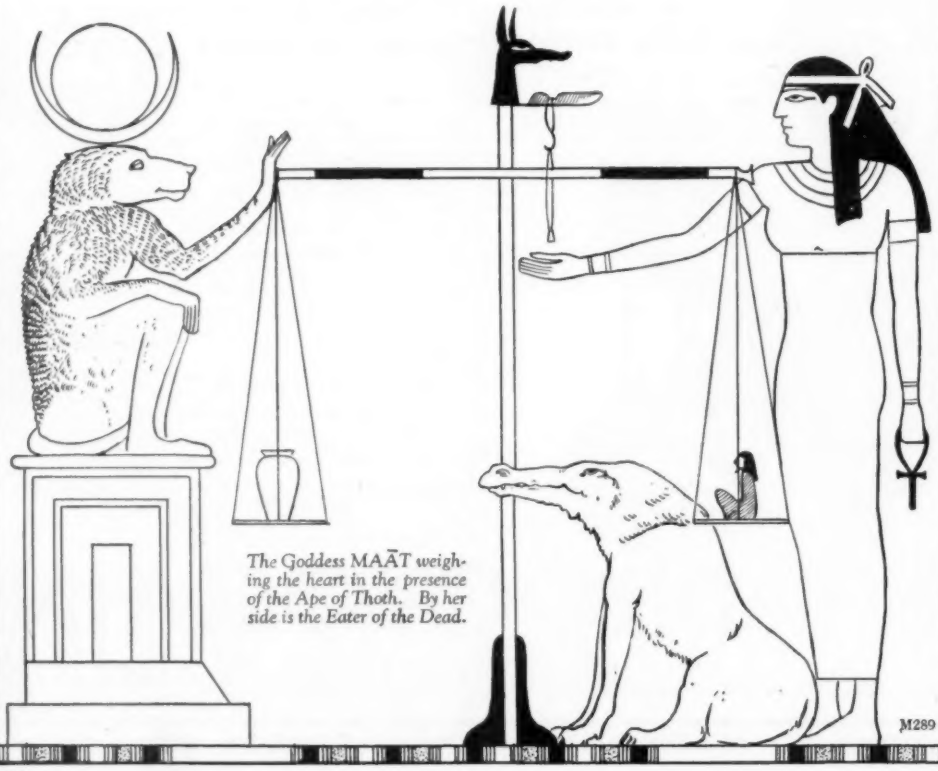


The Goddess MAĀT weighing the heart in the presence of the Ape of Thoth. By her side is the Eater of the Dead.

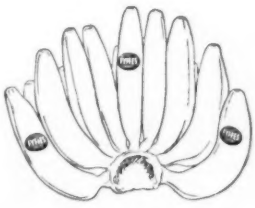
THE PHYSIOLOGICAL VALUE OF THE BANANA

III. Ash or mineral matter: The amount of ash (0.8 per cent average) is high for a fruit. It is alkaline, a point to be remembered in connection with intestinal weakness.

Small quantities of iron, copper and iodine are also present.

The iron content averages 6.4 parts per million, a satisfactory amount for a fruit. The presence of a minute amount of copper assists the due assimilation of the iron into the blood.

The trace of iodine, being more readily assimilable when normally present in a food than when added in the form of a salt, has its full beneficial action upon the thyroid gland.



N.B. Therapeutically, the banana is most valuable when fully ripe. In the fully ripe banana the soluble sugars evolved are approximately 9 per cent. cane sugar and 4 to 5 per cent. each of glucose and fructose. A banana is ripe when all green has disappeared from the skin and brown spots have formed on the yellow surface.

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CARBOHYDRATES	8·8
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CALORIES PER OZ.	17·0

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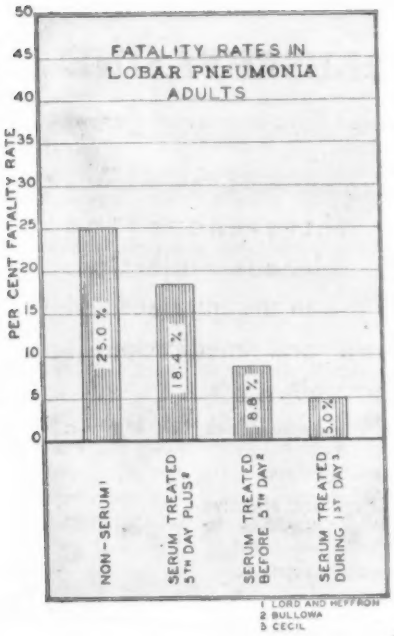
Bacteræmia, a serious development, occurs with considerably less frequency in cases where early, adequate serum therapy is instituted.

Bacteræmia appears at varying times in the course of the disease, but usually after the third day.



BULLOWA* has presented the following significant facts concerning bacteræmia in Type 1 and Type 2 pneumonias—

> In non-serum treated cases, the incidence of bacteræmia is 25% in Type 1 and 43% in Type 2. The mortality in each of these bacteræmias is close to 75% if serum is not used, and considerably lower when serum is used.

The importance of immediate typing, even at the first suspicion of pneumonia, cannot be overemphasised.

*BULLOWA, J. G. M. "The Management of the Pneumonias" Oxford University Press, 1937

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(*p*-aminobenzenesulphonamide or sulphanilamide)

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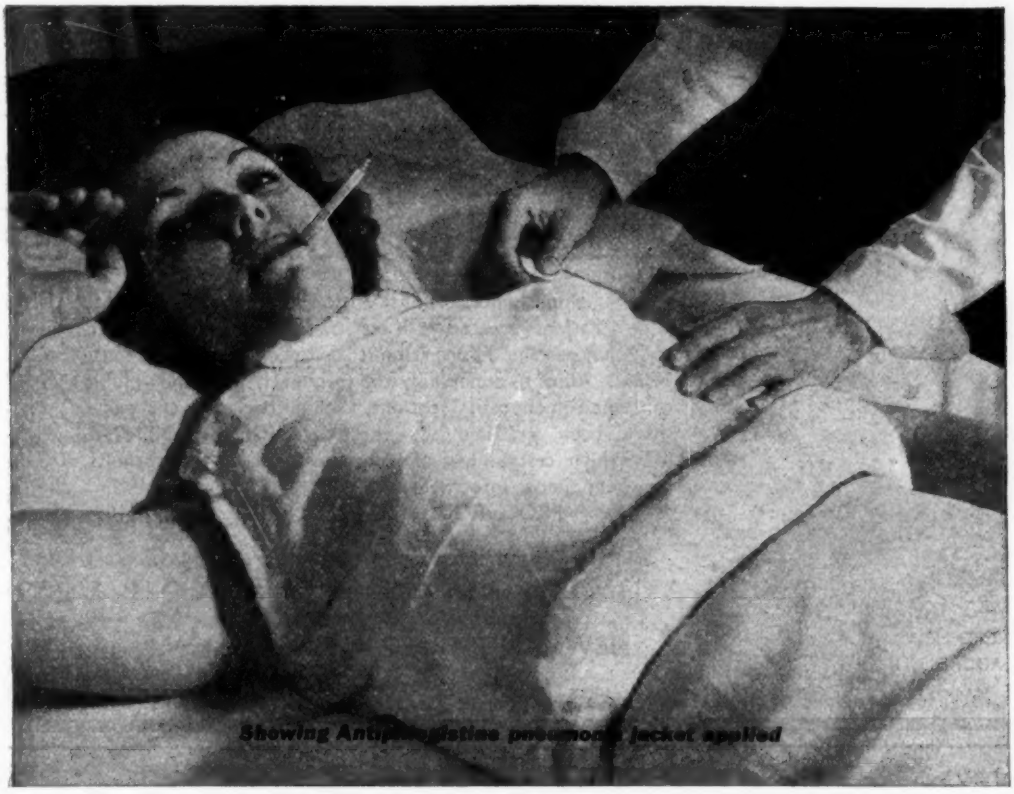

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PROC. ROY. SOC. MED., JULY, 1936, p. 1094

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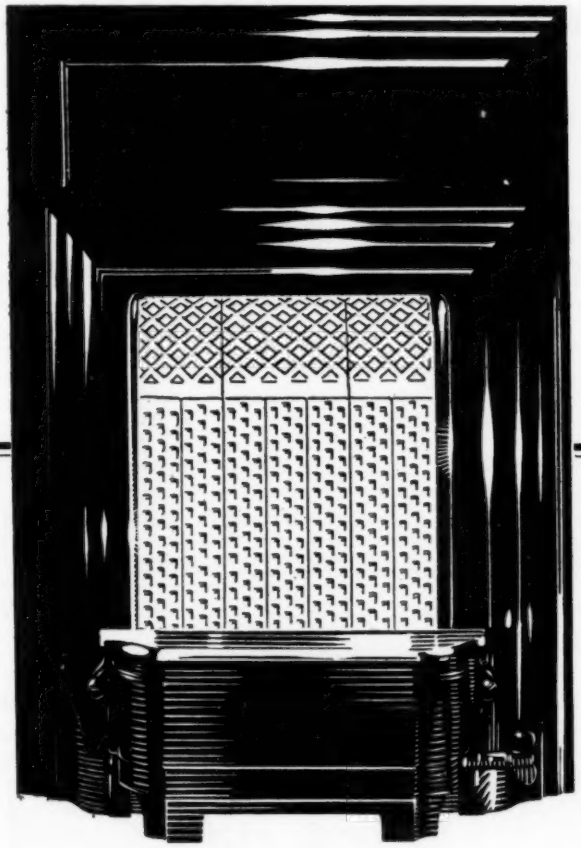

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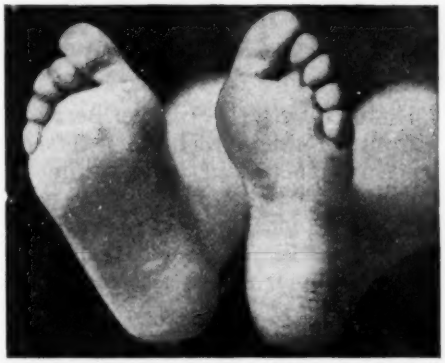

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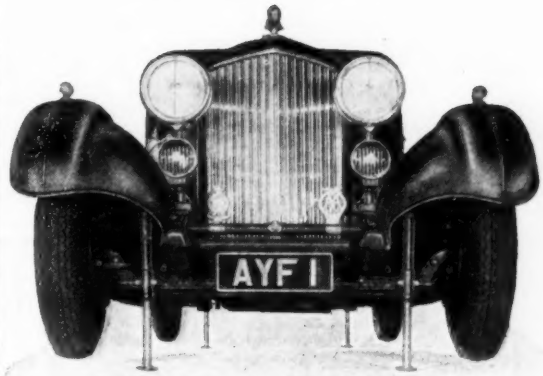

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The buildings face S.S.W. and are sheltered from the sea by a pine-clad ridge. The sunshine record and dry air complete a perfect site. The medical equipment is of the latest kind, and there is a day and night nursing staff.

TERMS FROM 7½ GUINEAS WEEKLY

FAIRFORD RETREAT, Gloucestershire

(Within two hours of London.) **ESTABLISHED 1822.**

Home life for Ladies and Gentlemen MENTALLY AFFLICTED. Voluntary Patients received without Certificates. The Retreat is pleasantly situated in extensive grounds on the banks of the River Colne, a part of which celebrated trout stream flows through the Estate. There is every facility for sport and Occupational Therapy. The neighbourhood abounds in pleasant walks, and Fairford, being in the Cotswolds on a dry oolitic soil, is remarkably healthy. Own farm and dairy produce.

For terms, which are very moderate, apply to the proprietor. Dr. A. C. King-Turner, The Retreat, Fairford, Glos. Telephone 9.

PECKHAM HOUSE, 112, Peckham Road, London, S.E.15

Telegrams: "Alleviated, London." **Telephone: Rodney 2641 and 2642.**

The above House, which was established in 1826, is an Institution for the care and treatment of persons suffering from mental diseases and nervous disorders. Certified, Voluntary and Temporary patients are received. Separate houses for treatment and accommodation of special cases adjoin the Institution. There is a seaside branch, Kearsney Court, near Dover, to which patients may be sent for treatment or on holiday. Motor and carriage exercise is provided as required. Patients can avail themselves of a course of physical drill. Tennis Courts. Entertainment, dances, and indoor amusements held throughout the year. Terms from £3 3s. per week. Illustrated prospectus and further particulars can be obtained from the MEDICAL SUPERINTENDENT.

CHEADLE ROYAL HOSPITAL, Cheadle, Cheshire.

This REGISTERED HOSPITAL, with a SEASIDE BRANCH at Colwyn Bay, N. Wales, is for the treatment and care of those of the Upper and Middle Classes suffering from MENTAL AND NERVOUS DISEASES.

The Hospital is governed by a COMMITTEE, appointed by the TRUSTEES of the Manchester Royal Infirmary.

In addition to the Main Buildings there are separate villas. Extensive grounds. Hard and grass tennis courts, cricket and croquet grounds, and a court for badminton. There are also wireless installations. Golf may be had within easy distance. Occupational Therapy.

VOLUNTARY, TEMPORARY AND CERTIFIED PATIENTS received.

The Hospital is nine miles from Manchester, 50 minutes by rail from Liverpool, and 3½ hours from London.

For terms and further particulars apply to the Medical Superintendent, who may be seen in Manchester BY APPOINTMENT. *Telephone: Gatley* 2231 (3 lines).

CAMBERWELL HOUSE

Telegrams: "PSYCHOLIA, LONDON." **33, PECKHAM RD., LONDON, S.E.5.** Telephone: Rodney 4242 (2 lines).

For the treatment of MENTAL DISORDERS.

Also completely detached Villas for Mild Cases, with private suites if desired. Voluntary Patients received. Twenty acres of Grounds, Hard and Grass Tennis Courts, Putting Greens, Bowls, Croquet, Squash Rackets, Recreation Hall with Badminton Court, and all indoor amusements, including Wireless and other Concerts, Occupational Therapy, Calisthenics, and Dancing Classes. X-ray and Actino-therapy, Prolonged Immersion Baths, Operating Theatre, Pathological Laboratory, Dental Surgery, and Ophthalmic Department. Chapel.

Senior Physician: Dr. HUBERT JAMES NORMAN, assisted by three Medical Officers, also resident and visiting Consultants.

An illustrated Prospectus, giving fees which are strictly moderate, may be obtained upon application to the Secretary.

The Convalescent Branch is Hove Villa, Brighton, and is 200 feet above sea level.

THE CLINIC

20 Devonshire Place
London, W.1

Tel.: Welbeck 4444 (20 lines)

A NURSING HOME FOR SURGICAL, MEDICAL AND MATERNITY CASES

Fees 10 gns. to 18 gns. per week (Average—14 gns.).
8 Operating Theatres.
150 State Registered Nurses.
2 Resident Medical Officers (for emergencies).

Patients only received under the supervision of their own Medical Practitioner.

Drugs and Dressings free (other than Proprietary Articles).
Illustrated Brochure on application to Secretary.

Smedley's
Great Britain's Greatest Hydro
Matlock

Unrivalled suites of Baths, Turkish and Russian Baths, Aix and Vichy Douches, Massage; Plombières Treatment, Studs Chair, and Electric Installation for Baths and other Medical purposes, Dowsing Radiant Heat, Infra Red Light, Artificial Sunlight, d'Arsonval High Frequency, Diathermy, Nauheim Baths, Soapless Foam Baths, etc. "Certified" Milk from own farm. Large winter garden. Orchestra. Special provision for invalids. Night attendance. Over 60 trained Male and Female Nurses, Masseurs, Attendants, etc.

Resident Physicians: G. C. R. HARBINSON, M.B., B.Ch., B.A.O.(R.U.I.). R. MACLELLAND, M.D., C.M.(Edin.). **TERMS, 13s. to 18s. per day, inclusive of board.**

Illustrated Brochure C.J. and full information on request.

Telephone—No. 17 (3 lines). *Telegrams*—Smedleys, Matlock.

LA METAIRIE

Centre of Research and Medico-Psychological Treatments

(Near Nyon, on the Leman) Tel.: Nyon 95,626.

Carefully discriminated and graduated treatments of all nervous and mental affections. Happy environment, magnificent country, temperate climate.

Pathopsychological Institute annexe (Pupillography, &c.). Villa for abnormal children.

Head Physician: Dr. W. BOVEN, Professor of Psychiatry and Characterology at the University of Lausanne. (Consultation-room at Lausanne, by appointment; Tel.: Lausanne 25,838.)

Collaborators: Dr. O. Löwenstein, formerly Professor at the University of Bonn, inventor of the pupillographic method. Madame Dr. Calame.

PORTSMOUTH CITY MENTAL HOSPITAL

Accommodation is provided for the reception of PRIVATE PATIENTS of both sexes in three detached Villas, which are healthily and pleasantly situated in extensive grounds with sea views.

Charges from 3 guineas weekly, including all necessaries except clothing.—Apply to the Medical Superintendent and Resident Physician, THOMAS BEATON, O.B.E., M.D., F.R.C.P.

Grove House, All Stretton, Church STRETTON, SHROPSHIRE.

A PRIVATE HOME for the care and treatment of a limited number of Ladies Mentally Afflicted.

Climate healthy and bracing.

Apply to Dr. MCCLINTOCK, Proprietor and Resident Medical Superintendent.

HEIGHAM HALL, NORWICH

A PRIVATE MENTAL HOME situated in 14 acres of well-wooded grounds. For Ladies and Gentlemen suffering from Nervous or Mental Illness. Voluntary Patients, Temporary Patients, and Patients under Certificates are admitted for Treatment. Fees: from 4 guineas a week upwards, according to requirements. A few vacancies exist for Ladies and Gentlemen at reduced fees on the recommendation of the Patient's own Physician.

Apply to Dr. J. A. SMALL.

Telephone: 80 Norwich. Telegrams: Small, 80 Norwich.

THE COPPICE, NOTTINGHAM.

HOSPITAL FOR MENTAL DISEASES.

President: The Right Hon. LORD BELPER.

This Institution is exclusively for the reception of a limited number of PRIVATE PATIENTS of both sexes, of the UPPER and MIDDLE CLASSES, at moderate rates of payment. It is beautifully situated in its own grounds, on an eminence a short distance from Nottingham, and commands an extensive view of the surrounding country; and from its singularly healthy position and comfortable arrangements affords every facility for the relief and cure of those mentally afflicted. Voluntary and Temporary Patients received. Occupational Therapy. For terms, &c., apply to the Medical Superintendent.

Telephone: 64117 Nottingham.

COURT HALL

KENTON, near EXETER

FOR THE TREATMENT OF EIGHT LADIES, VOLUNTARY, TEMPORARY, OR CERTIFIED PATIENTS

Large Gardens and Own Dairy

CLIFFDEN, TEIGNMOUTH, for Early and Convalescent Cases. A well-appointed house, with spacious balconies and extensive views of the South Devon Coast. Sub-tropical gardens. Own Dairy in 25 acres. Private road to beach.

Resident Physicians—BERTHA M. MULES, M.D., B.S.
ANNIE S. MULES, M.R.C.S., L.R.C.P.

Telephones—Starcross 59 and Teignmouth 289.

Telegraphic Address: "Relief, Old Catton." Telephone: 290 Norwich.

NERVOUS & MENTAL AFFECTIONS

Ladies only received

The Grove, Old Catton, Norwich.

A High-class Home for the Curative Treatment of Nervous Affections. Voluntary Boarders are also received without certificates.

For full particulars apply to the Misses MCLINTOCK or to Dr. S. BARTON, 34, Surrey-street, Norwich, Visiting Physician.

CLARENCE LODGE

CLAPHAM PARK, LONDON

Situated in 3½ acres of secluded gardens.

HOME FOR TWELVE MENTAL PATIENTS (LADIES).

Well-appointed private house. Home comforts and Trained Nursing Staff. Eminent Mental Specialist. Visiting Physician.

Station: Clapham Common Tube.

Phone: Tulse Hill 4913

Apply MISS THWAITES.

THE WARNEFORD, OXFORD.

HOSPITAL FOR MENTAL DISORDERS.

President: The Right Hon. the LORD SAYE AND SELE.

This Registered Hospital for the Treatment and Care, at moderate charges, of Mental Patients belonging to the educated classes, stands in a healthy and pleasant situation on Headington Hill, near Oxford. Voluntary and Temporary Patients are also received for treatment. The adjacent estate of HIGHFIELD PARK has recently been acquired and the house, which has been modernised and equipped with every comfort, is now available for mild and convalescent patients. Private suites can be arranged.

For further particulars apply to the Physician-Superintendent.

BARNWOOD HOUSE, GLOUCESTER.

A REGISTERED HOSPITAL FOR THE CARE AND TREATMENT OF LADIES AND GENTLEMEN SUFFERING FROM NERVOUS AND MENTAL DISORDERS.

Within two miles of the G.W. Railway and L.M. & S. Railway Stations at Gloucester, the Hospital is easily accessible by rail from London and all parts of the United Kingdom. It is beautifully situated at the foot of the Cotswold Hills, and stands in its own grounds of over 280 acres. Voluntary Boarders of both Sexes are also received for treatment.

Special accommodation for Lady Voluntary Boarders is also provided at the MANOR HOUSE, which has its own private grounds and is entirely separate from the main Hospital.

For particulars as to terms, &c., apply to G. W. T. H. FLEMING, M.R.C.S., L.R.C.P., D.P.M., Medical Superintendent.

Telephone: No. 6207 Barnwood.

RUSSELLS

HEMEL HEMPSTEAD ROAD, WATFORD

Telephone: WATFORD 5917

This new convalescent home has just been opened for the care and treatment of mild and recoverable mental and nervous conditions in both sexes.

The house is situated high up, in 40 acres of beautiful grounds, 17 miles from London. One Lady Doctor is in residence, and another specialist in psychological medicine is in daily attendance. Fees from ten guineas a week, inclusive.

Apply: RESIDENT MEDICAL OFFICER.

CHISWICK HOUSE,

PINNER, MIDDLESEX.

Telephone: PINNER 234.

A Private Hospital for the Treatment and Care of Mental and Nervous Illnesses in both Sexes.

A modern country house, 12 miles from Marble Arch, in attractive and secluded surroundings. Fees from 10 guineas per week inclusive. Cases under Certificate, Voluntary and Temporary Patients received for treatment.

DOUGLAS MACAULAY, M.D., D.P.M.

STRETTON HOUSE,

Church Stretton, Shropshire.

A PRIVATE HOME for the treatment of gentlemen suffering from Mental and Nervous illness, including the allied Disorders of Alcoholism and the Drug Habit. All types of early Mental and Nervous Cases are received without Certificates as Voluntary Boarders. Bracing hill country. See "Medical Directory," p. 2328.—Apply to Medical Superintendent. 'Phone 10 P.O., Church Stretton.

CITY OF LONDON MENTAL HOSPITAL

Near DARTFORD, KENT.

Ladies and Gentlemen received for treatment under certificates, and without certificates as either VOLUNTARY or TEMPORARY PATIENTS, at a weekly fee of TWO GUINEAS, and upwards.

HILL END HOSPITAL AND CLINIC

FOR THE PREVENTION AND TREATMENT OF MENTAL AND NERVOUS DISORDERS

(20 miles from London)

Ladies suffering from all forms of MENTAL ILLNESS are received for treatment, on modern lines, as Voluntary, Temporary or Certified Private Patients at the Hill End Hospital. Convalescent or mild cases can be treated in a delightful country mansion, with extensive grounds, known as

HIGHFIELD HALL,

situate about a mile away from the Hospital.

FEES TWO TO THREE GUINEAS PER WEEK.

For further particulars apply to the Medical Superintendent, W. J. T. KIMBER, L.R.C.P., D.P.M.

ST. ALBANS, HERTS

SPRINGFIELD HOUSE

'Phone: BEDFORD 3417. **Near BEDFORD**

For Mental Cases with or without Certificates.

Ordinary Terms: Five Guineas per week (including Separate Bedrooms for all suitable cases without extra charge)

For forms of admission, &c., apply to the Resident Physician, CEDRIC W. BOWER.

INTERVIEWS IN LONDON BY APPOINTMENT.

FENSTANTON

Christchurch Road, Streatham Hill, S.W.2

A Private Home for the Treatment of LADIES with Mental and Nervous Disorders. Psycho-Therapy, Physio-Therapy, &c. 12 acres of grounds

Apply: Dr. MADELINE R. LOCKWOOD,
phone: TULSE HILL 7181 *Resident Physician Superintendent.*

ASHWOOD HOUSE

KINGSWINFORD, STAFFORDSHIRE

An old-established home-like Institution for the treatment of MENTAL AFFECTIONS in BOTH SEXES. Probationary cases and non-certified patients are received as well as those regularly certified.

Full particulars as to reception terms, &c., may be obtained from the Resident Medical Officer.

LITTLETON HALL, BRENTWOOD, ESSEX

(18 MILES FROM LONDON.)

400 feet above sea.

HOME for few LADIES Mentally Afflicted. Large grounds. Liverpool st. 26min. Stations Brentwood, Shenfield, one mile. Boarders received. Apply Dr. Haynes Telephone and Telegrams: Haynes Brentwood 45.

HOME FOR EPILEPTICS

MAGHULL (near LIVERPOOL)

FARMING and OPEN AIR OCCUPATION for PATIENTS

A few vacancies in 1st and 2nd Class Houses.

FEES: 1st Class (men only) from £3 p.w. upwards.
2nd Class (men and women) 32/- p.w.

For further particulars apply:
C. EDGAR GRISEWOOD, A.C.A., Secretary,
20, Exchange Street East, Liverpool, 2

EPILEPSY

Attendance at school is a necessary part of the satisfactory treatment of Epilepsy in Children.

COLTHURST HOUSE SCHOOL

meets all the requirements of children of middle-class parentage. Extensions made necessary by the success of the School have created several vacancies.

Only bright and intelligent boys and girls are eligible for admission.

Apply to the DIRECTOR, COLTHURST HOUSE SCHOOL, WARFORD, ALDERLEY EDGE.

BROOKE HOUSE, CLAPTON

A PRIVATE HOME for the treatment of Nervous and Mental Disorders in both sexes. Situated in nine acres of Pleasure Grounds.

Voluntary, Temporary, and Certified Patients received.

For further particulars apply—
Dr. ERNEST ROLLINS, Resident Physician.
Tel.: Amherst 1642.

King's College Hospital.

The Committee of Management invite applications for the post of ASSISTANT PHYSICIAN.

Applications, with copies of three testimonials, should be sent before February 8th, 1938, to the House Governor, King's College Hospital, Denmark-hill, S.E.5, from whom particulars of the duties may be obtained. Candidates must be Members or Fellows of the Royal College of Physicians of London.

South Eastern Hospital for Children,

Sydenham, S.E.26.
(100 Beds.)

Recognised by the Examining Board for Post-graduate Study for the Diploma of Child Health.

Applications are invited for the post of HONORARY PATHOLOGIST to the above Hospital (ordinary attendance two half days a week). A honorarium of £50 per annum will be paid. Immediate applications to be made, stating age and experience, with copies of three testimonials, should be sent to the Honorary Secretary of the Medical Committee at the Hospital.

Royal Masonic Hospital,

Ravenscourt Park, W.6.

A post of RESIDENT SURGICAL OFFICER (Male), one of three Residents, will be vacant on 1st March, 1938. Salary at the rate of £250 per annum, with board, residence, and laundry. The appointment is for six months. Candidates must be registered, and must have held resident appointments at a general hospital. The Institution (145 Beds at present, but to be increased) is primarily for paying patients of both sexes of moderate means usually unable to afford ordinary Nursing Home treatment, &c.

Applications, stating full particulars, to be sent on or before 24th inst., to the Honorary Secretaries, from whom further information may be obtained.

The Hospital for Sick Children,

Great Ormond-street, London, W.C.1.

Applications are invited from registered Medical Practitioners for the post of CASUALTY MEDICAL OFFICER (salary £175 per annum). Duties to commence on the 7th February, 1938.

The appointment is a half-time one and non-resident, tenable in the first instance for six months.

Applications must be received by noon on Monday, the 31st January, 1938, and candidates must be prepared to attend for interview at the Hospital on Wednesday, 2nd February, 1938, at 4.45 P.M.

Full details of the appointment and forms of application are obtainable from the undersigned.

January, 1938. HERBERT F. RUTHERFORD, Secretary.

The Hospital for Sick Children,

Great Ormond-street, London, W.C.1.

Applications are invited for the post of ASSISTANT PATHOLOGIST (Male).

Candidates, who must possess a legal qualification to practise, are required to send in their applications, addressed to the Secretary, accompanied by copies of not more than three testimonials, given specially for the purpose, before 12 o'clock on Monday, 31st January, 1938.

The appointment is made for one year, and is non-resident.

Salary £400 per annum, with facilities for Private Pathological Practice.

The selected candidate will be required to take up his duties not later than 16th February, 1938, preferably earlier.

All candidates must be in attendance to appear before the Joint Committee on Wednesday, 2nd February, 1938, at 4.45 P.M.

Forms of application, copy of the rules, and details of the appointment, will be supplied on application to the undersigned.

January, 1938. HERBERT F. RUTHERFORD, Secretary.

The Hospital for Sick Children,

Great Ormond-street, London, W.C.1.

There are vacancies for two ANÆSTHETISTS.

Candidates must be registered Medical Practitioners and be prepared to take up their duties at an early date.

The appointment is for one year, but is renewable, and carries with it an honorarium of £15 15s. per annum, and an allowance of £6 6s. to provide a substitute during annual leave.

Candidates are invited to send in their applications, addressed to the Secretary, with copies of not more than three testimonials written specially for the purpose, before 12 o'clock on Monday, 31st January, 1938, and must appear personally before the Joint Committee at their meeting on Wednesday, 2nd February, 1938, at 4.45 P.M.

Forms of application and copies of the Rules are obtainable from the undersigned.

HERBERT F. RUTHERFORD, Secretary.

January, 1938.

The Queen's Hospital for Children,

Hackney-road, London, E.2.

HOUSE SURGEON required 1st March, 1938.

CASUALTY OFFICER required 1st March, 1938. Some Ophthalmic work additional.

Six months' appointment. Salary at the rate of £100 per year, with board, lodging, and laundry.

Applications must be made on forms to be obtained from the undersigned, and must be sent in, with copies of not more than four testimonials, on or before the 4th February, 1938.

CHARLES H. BESSELL, Secretary.

1st January, 1938.

ROYAL NAVAL MEDICAL SERVICE

Vacancies exist for MEDICAL OFFICERS in the Royal Navy, and applications are invited for entry in April, 1938.

Candidates below the age of 28 years are preferred and they must be registered under the Medical Acts. No examination in professional subjects will be held but candidates will be required to attend for interview by a Selection Board.

Selected candidates will be entered for Service for a period of three years in the first instance, which may be extended to five years at the discretion of the Admiralty.

At the end of three years' service officers may retire with a gratuity of £400, but those who serve for five years will receive £1,000.

At the end of five years' Short Service permanent commissions will be given to selected officers who wish to make the Naval Medical Service their permanent career. Officers transferred to the permanent list will receive a gratuity of £1,000 (less Income Tax).

Opportunities are available for officers on the permanent list to specialise, and ample provision is made for Post-graduate study.

Copies of the regulations for entry and conditions of Service, including rates of pay and allowances, may be obtained from the Medical Director-General of the Navy, Admiralty, S.W.1, and from the Deans of all Medical Schools.

Applications for entry from intending candidates must be received not later than 28th February, 1938.

National Hospital, Queen-square, W.C.1.

HOUSE SURGEON.

Applications are invited for the post of House Surgeon. The work is concerned almost entirely with the surgery of the central nervous system, and it is desirable that candidates should have had previous experience of general surgery.

Applications, accompanied by three recent testimonials, should be sent to the undersigned not later than Monday, January 24th. The salary is £100 per annum, with board and lodging.

GODFREY H. HAMILTON, Secretary.

The London Chest Hospital,

Victoria Park, E.2.
(Bus, Tram, and Rail, Cambridge Heath L. & N.E.Railway.)

A vacancy for a HOUSE PHYSICIAN (Male) will occur on March 1st. Six months' appointment Salary at the rate of £100 per annum. Board, residence, and laundry provided.

Applications, with copies of testimonials (three), should be sent to the Secretary on or before Monday 31st January, 1938.

The Weir Hospital, Grove-road,

Balham, S.W.12. (30 Beds.)

SENIOR AND JUNIOR RESIDENT MEDICAL OFFICERS (Male, unmarried) required at once. Candidates must be fully qualified and duly registered.

Salary £250 and £150 respectively, with board and residence and laundry.

Applications, with copies of testimonials, to be sent to the Secretary, from whom further information may be obtained.

London County Council.

ASSISTANT MEDICAL OFFICERS (Men or Women) required for Mental Services. Candidates (under thirty-five years of age) must (i) be registered to practise both in Medicine and Surgery in England, (ii) be of at least one year's professional standing, and (iii) have held residential position in general hospital for six months or comparable general experience. Salary £470 a year, rising by £25 to £570 (additional allowance of £50 to holders of D.P.M.). No emoluments. Charges for board, lodging, &c. (at present £2 9s. a week), if required to be resident. Pensionable. In the case of Women, marriage terminates contract of service.

Application form, returned by 28th January, obtainable from Chief Officer (B), Mental Hospitals Department, Shell-Mex House, Strand, W.C.2. Canvassing disqualifies.

London County Council.

Applications invited from Medical Practitioners of at least one year's standing to undermentioned positions. Candidates must have held resident appointment in a general hospital for at least six months. Married quarters not available.

ASSISTANT MEDICAL OFFICERS (Grade I.).—Salary £350–£25–£425, with board, lodging, and washing.

(*a*) LAMBETH HOSPITAL, Brook-drive, Kennington-road, S.E.11.—Obstetrical experience essential; general medical duties.

(*b*) ST. GEORGE-IN-THE-EAST HOSPITAL, Raine-street, Wapping, E.1.—Surgical duties, orthopædic and gynæcological experience essential.

*(*c*) ST. MARY ABBOTS HOSPITAL, Marloes-road, Kensington, W.8.—Surgical duties, fracture experience desirable.

(*d*) ST. MARY, ISLINGTON, HOSPITAL, Highgate Hill, N.19.—General medical duties and anæsthetics.

(*e*) ST. PETER'S HOSPITAL, Fulbourne-street, Whitechapel, E.1.—Surgical and part medical duties.

* No accommodation for a woman.

Application forms obtainable (stamped addressed foolscap envelope necessary) from Medical Officer of Health (Staff Division, 2B), County Hall, S.E.1, returnable by 31st January.

Canvassing disqualifies.

London County Council.

Applications invited from Medical Practitioners of at least one year's standing to undermentioned positions. Experience in a resident appointment in a general hospital for at least six months desirable. Married quarters not available.

ASSISTANT MEDICAL OFFICER (Grade I).—Salary £350–£25–£425, with board, lodging, and washing.

(*a*) GROVE PARK HOSPITAL, Lee, S.E.12.

ASSISTANT MEDICAL OFFICER (Grade II).—Salary £250 a year, together with board, lodging, and washing. Appointment for one year only in first instance (renewable for a second year under certain conditions).

(*b*) KING GEORGE V. SANATORIUM, Godalming, Surrey.

Experience in the treatment of pulmonary tuberculosis essential for (*a*) and desirable for (*b*).

Application forms obtainable (stamped addressed foolscap envelope necessary) from Medical Officer of Health, Staff Division, 2B, County Hall, S.E.1, returnable by 7th February.

Canvassing disqualifies.

Royal College of Surgeons of England.

LICENCE IN DENTAL SURGERY.

Notice is hereby given that the Examination for the Licence in Dental Surgery will commence on the date stated below.

FINAL PROFESSIONAL EXAMINATION.
FRIDAY, FEBRUARY 18TH, 1938.

Candidates who have complied with the necessary requirements, and who desire to present themselves for Examination, must apply in writing to the Examination Hall, 8/11, Queen-square, London, W.C.1, at least twenty-one days before the date of the Examination.

HORACE H. REW, Director of Examinations.

Tilbury Hospital, Essex (Seamen's

HOSPITAL SOCIETY).—HOUSE SURGEON (Male) required immediately for six months. Salary £140 per annum, with board, residence, and laundry. Good opportunity for minor surgery.

Applications, with copies of three testimonials, to be sent to the undersigned.

F. A. LYON, Secretary, Seamen's Hospital,
Greenwich, S.E.10.

The South London Hospital for Women,

Clapham Common, S.W.4.
(140 Beds.)

A General Hospital for women and children.

Applications are invited from Medical Women for the undermentioned appointment :—

HOUSE SURGEON for a period of six months from March 1st, 1938.

Salary at the rate of £100 per annum, with board, residence, and laundry. Candidates are requested to call on members of the Hon. Medical Staff before Saturday, February 12th, by which date applications and copies of testimonials must reach the Secretary at the Hospital.

The Radium Institute,

Riding House-street, London, W.1.

Applications are invited for the post of RESIDENT MEDICAL OFFICER. Candidates must be unmarried.

The salary will be at the rate of £250 per annum, board, residence, and laundry being provided, and the appointment is for six months commencing immediately.

Applications, stating age, nationality, qualifications, and experience, with copies of three recent testimonials, must be received at the Institute as soon as possible.

Canvassing, either directly or indirectly, is not permitted.

THOS. A. GARNER, Secretary.

County Borough of Blackburn.

LADY ASSISTANT MEDICAL OFFICER OF HEALTH AND ASSISTANT SCHOOL MEDICAL OFFICER.

Applications are invited from duly registered Women Practitioners for the appointment of Assistant Medical Officer of Health and Assistant School Medical Officer to act under the direction and supervision of the Medical Officer of Health who is also School Medical Officer. The salary is at the rate of £600 per annum, rising by annual increments of £25 to £700 per annum.

The person appointed must, prior to the 1st April, 1930, have held the appointment of Medical Officer of an Ante-natal Clinic with the approval of the Minister, or have had at least three years' post-graduate experience in the practice of her profession and special experience of practical midwifery and ante-natal work.

Preference will be given to candidates who have enjoyed special post-graduate experience in the treatment of venereal diseases, and of diseases of children, and who hold a registrable Degree or Diploma in Public Health.

Applications to be made on forms to be obtained from the Medical Officer of Health, Victoria-street, Blackburn, and returned to him not later than Saturday, the 29th January, 1938, endorsed "Assistant Medical Officer of Health."

CHAS. S. ROBINSON, Town Clerk.

Town Hall, Blackburn, 19th January, 1938.

Lord Mayor Treloar Cripples' Hospital,

ALTON, HANTS. (410 Beds.)

A THIRD RESIDENT MEDICAL OFFICER is required on February 1st. Male, unmarried. Previous resident appointment an advantage. Salary at the rate of £150 for the first six months. £200 if reappointed after the first six months, with board, lodging, and laundry.

Apply, with copies of three testimonials, to the Medical Superintendent, Lord Mayor Treloar Cripples' Hospital, Alton, Hants.

Resident Medical Officer required for

WOKING AND DISTRICT VICTORIA HOSPITAL (50 Beds) on the 1st of March, 1938. Male or Female. British born. Unmarried. Minimum period six months. Salary £130 per annum, with residence, board, and laundry.

Applications, with testimonials, to Hon. Secretary by 28th January, 1938.

The Prince of Wales's Hospital,

Lockyer-street, PLYMOUTH.
(Formerly Central Hospital, Lockyer-street, Plymouth.)
(50 Beds.)

Applications are invited for the post of HOUSE SURGEON. Salary £150 per annum, with board, residence, and laundry. Duties to commence 19th February.

Appointment is tenable for seven months and is subject to renewal.

Applications, stating age and qualifications, with copies of three recent testimonials, to reach the undersigned by 4th February. ARTHUR R. CASH, Gen. Supt. and Secretary.

Prince of Wales's Hospital, Greenbank-road, Plymouth.

The Prince of Wales's Hospital,

Greenbank-road, PLYMOUTH.
(Formerly South Devon and East Cornwall Hospital.)
(264 Beds.)

Applications are invited for the post of HOUSE SURGEON. Salary £120 per annum, with board, residence, and laundry.

Appointment is tenable for seven months and is subject to renewal. Duties to commence 19th February.

The Hospital is officially recognised for the Surgical practice required before admission to the Final Fellowship Examination of the Royal College of Surgeons of England.

Applicants must be registered under the Medical Acts.

Applications, stating age and qualifications, with copies of three recent testimonials, to reach the undersigned by 4th February. ARTHUR R. CASH, Gen. Supt. and Secretary.

The Royal Hospital, Wolverhampton.

(Incorporated under Charter.)

HOUSE SURGEON required (General Surgery), duties to commence forthwith. The Hospital contains 300 beds, includes the usual special departments and is recognised by the various Examining Bodies for a part of the requisite attendance on Medical and Surgical Practice.

Candidates must be registered under the Medical Acts, and unmarried.

The appointment is for six months. Salary at the rate of £100 per annum. Board, furnished rooms, and laundry provided. Applications, with copies of testimonials, to be forwarded to the undersigned.

W. H. HARPER, House Governor.

Wolverhampton, 10th January, 1938.

East Suffolk and Ipswich Hospital.

(350 Beds. 7 Residents.)

Wanted, 1st February, CASUALTY OFFICER (Male—British). Salary at the rate of £144 per annum, with board, apartments, and laundry.

Applications, stating age, qualifications, and experience, to be sent to the undersigned together with copies of three recent testimonials.

ARTHUR GRIFFITHS, Secretary.

The Hospital, Ipswich, 15th January, 1938.

County Mental Hospital, Lancaster.

Applications are invited for the post of ASSISTANT MEDICAL OFFICER (Male).

Candidates must be single and under thirty-five years of age. Commencing salary £500, rising by annual increments of £25 to £600, with further increase on promotion, subject to a deduction of 3 per cent. under the Asylums Officers' Superannuation Act.

There are no emoluments.

The selected candidate will be required to live in the Hospital, and he will be provided with board, lodging, &c., for which a charge of £150 a year is made.

The possession of a Diploma in Psychological Medicine will entitle the Officer to an additional £50 per annum.

Applications, giving full particulars, with testimonials (copies only), should be forwarded to the Medical Superintendent on or before the 29th January, 1938.

Surrey County Council.

PUBLIC HEALTH DEPARTMENT.

JUNIOR ASSISTANT RESIDENT MEDICAL OFFICER.

Junior Assistant Medical Officer (either sex) required at the COUNTY SANATORIUM (300 Beds), MILFORD, near GODALMING. Resident experience in general hospital essential. Appointment is for six months, renewable for further six months.

Cash salary £250 per annum, together with full residential emoluments valued at £100 per annum, making an aggregate of £350 per annum. Appointment is subject to the Staffing Regulations of the County Council.

Forms of application from County Medical Officer, County Hall, Kingston-upon-Thames, to whom forms should be returned, with copies of three recent testimonials, by first post on Friday, January 28th, 1938.

DUDLEY AUKLAND, Clerk of the Council.

County Hall, Kingston-upon-Thames,
17th January, 1938.

IRAQ GOVERNMENT

APPOINTMENT OF BRITISH SURGICAL SPECIALISTS

The Iraq Government invite applications from British Medical and Surgical Specialists (Male) for the following vacant appointments:—

1. OBSTETRICIAN AND GYNÆCOLOGIST

Duties: To be Professor of Obstetrics and Gynæcology in the Royal College of Medicine, Bagdad, and Chief of the Unit of Obstetrics and Gynæcology in the Royal Hospital, Bagdad.

Salary: Iraq Dinars 150 per mensem.

2. EAR, NOSE AND THROAT SPECIALIST

Duties: To be Lecturer on Ear, Nose, and Throat diseases in the Royal College of Medicine, Bagdad, and Chief of one of the Units for these diseases at the Royal Hospital, Bagdad.

Salary: Iraq Dinars 120 per mensem. In special circumstances if it is considered that the candidate's qualifications and experience justify it a salary in excess of this amount, but not exceeding 150 Dinars per mensem, may be granted.

3. GENERAL SURGICAL SPECIALIST

Duties: To act as Surgical Specialist in any hospital of the Iraq Health Service as required, and to assist in the teaching of Surgery in the Royal College of Medicine, Bagdad, if required.

Salary: Iraq Dinars 120 per mensem.

Candidates must be experienced in operative work and must hold a Specialist's Diploma in their branch of work, such as F.R.C.S., M.C.O.G., or D.L.O.

Age must not exceed forty-five years. Successful candidates will be required to enter into contracts for a period of five years. Consultant practice is allowed provided that it does not interfere with the performance of official duties. The teaching at the Medical College is in the English language.

One Iraq Dinar is equivalent to One Pound Sterling. Salaries will be subject to Iraq Income Tax which is:—150 Dinars exempt, the next 150 Dinars subject to 6 per cent. tax and the remainder of the income 9 per cent.

Forms of application and copies of the form of Contract can be obtained from the IRAQ MINISTER, THE ROYAL IRAQ LEGATION, 22, QUEEN'S GATE, LONDON, S.W.7. Particulars as to the Provident Fund, leave, and passage allowances are given in the Form of Contract.

No application can be considered unless received *on the prescribed form* not later than February 18th.

Bexhill Hospital, Bexhill-on-Sea.

Applications are invited for the post of RESIDENT MEDICAL OFFICER (Male or Female).

The appointment is for a period of six months. Salary £150 per annum, with board, residence, and laundry.

Applications, stating age, nationality, experience, and qualifications, accompanied by three recent testimonials, should be received by the undersigned not later than the 31st January 1938.

P. E. WINDO, Secretary.

Cardiff City Mental Hospital,
WHITCHURCH, GLAM.

HOUSE PHYSICIAN (Male), age not exceeding 30 years, required for above Hospital (790 Beds). Salary £200 per annum, with apartments, board, attendance, and laundry. Six-monthly appointment, renewable for a further six months. The Hospital provides facilities for all modern psychiatric treatment, is equipped with Research Laboratories (biochemical and pathological) under a whole-time Director of Research, conducts out-patient clinics, and is associated with the Welsh National School of Medicine for the teaching of Psychological Medicine.

Applications, together with copies of three recent testimonials, to be forwarded to the Medical Superintendent.

County Borough of Rochdale.

PUBLIC HEALTH DEPARTMENT.

The Health Committee invite applications from fully qualified registered Medical Practitioners (unmarried) for the appointment of JUNIOR RESIDENT MEDICAL OFFICER (Male) at the BIRCH HILL HOSPITAL (475 Beds—Medical, Surgical, Children, and Maternity).

The appointment includes certain services at the adjoining Public Assistance Institution, and will be for a period of six months in the first instance, and for a further period of six months at the option of the Town Council, but will not be renewable thereafter.

Salary at the rate of £225 per annum, together with board, residence, and laundry.

Applications must be made on the prescribed form, which may be obtained on application to the Medical Officer of Health, and returned addressed to him at the Public Health Offices, Baillie-street, Rochdale, not later than Monday, 7th February, 1938.

HARRY BANN, Town Clerk.

Town Hall, Rochdale, 15th January, 1938.

Herefordshire County Council.

ASSISTANT COUNTY MEDICAL OFFICER AND MEDICAL OFFICER OF HEALTH.

The Herefordshire County Council, the Ledbury and Ross-on-Wye Urban, and the Dore and Bredwardine, Ledbury and Ross and Whitchurch Rural, District Councils require a Medical Officer who will act as Assistant County Medical Officer and as Medical Officer of Health for the areas of the District Councils named.

Salary £800 per annum, with travelling expenses.

Applications on the prescribed form, which may be obtained from the Clerk of the Council, Shirehall, Hereford, must be received by him on or before the 5th February, 1938.

Hull Royal Infirmary.
(365 Beds.)

Applications are invited from registered Medical Practitioners for the post of HOUSE SURGEON (Male) to the Ophthalmic and Ear, Nose, and Throat Departments, vacant February 12th.

Salary at the rate of £150 per annum, plus residence, board, and laundry.

The post is recognised for the clinical work required in the regulations for the D.O.M.S. and D.L.O.

The appointment will be for a period of six months, but will be determinable at any time by one month's notice on either side.

Applications, giving particulars of age, experience, and nationality, together with copies of recent testimonials, should be addressed to the undersigned.

17th January, 1938. R. J. CARLESS, House Governor.

Hill End Hospital and Clinic
FOR THE
PREVENTION AND TREATMENT OF MENTAL AND NERVOUS DISORDERS, ST. ALBANS.

THIRD ASSISTANT MEDICAL OFFICER (Female) required.

Salary £425, rising by annual increments of £20, £15, and £15 to £475 per annum, with board, lodging, and laundry valued at £100. £50 additional for D.P.M. Subject to 3 per cent. deduction under the Asylums Officers' Superannuation Act, 1909.

Previous Mental Hospital experience and the possession of the D.P.M. desirable.

Applicants should be single and under thirty years of age.

Application forms may be obtained from the Medical Superintendent.

GOVERNMENT OF BAHRAIN
PERSIAN GULF

Qualified doctor required as GOVERNMENT MEDICAL OFFICER to take charge of new hospital, medical and surgical, village dispensaries and public health.

Age between thirty and forty, British born.

Initial salary Rs. 1400/- per month, rising by bi-annual increments of Rs. 50/- per month to Rs. 1800/- per month. (One rupee = 1s. 6d.) Provident fund Rs. 150/- per month. Agreement in first place for five years. Leave after every two years' service at rate of forty-five days for each year's service. Free passage on joining and once in every four years when proceeding on leave. Free furnished house and car.

Applications, accompanied by copies of three testimonials, to be sent by Air Mail to THE ADVISER, Bahrain Government, Bahrain, Persian Gulf.

Surrey County Council.

ASSISTANT MEDICAL OFFICER.

Applications are invited for the appointment of an Assistant Medical Officer (Female). Applicants must possess a qualification in Public Health, and have had experience in the Medical Inspection of School-children, in Maternity and Child Welfare, and in the examination and certification of mentally defective children. The officer appointed will be required to undertake such other Public Health duties as may be allocated to her. She will be on the staff of the County Medical Officer of Health, must reside in the County of Surrey, and devote her whole time to the work. Salary £600 per annum, rising by annual increments of £20 to £700 per annum. Travelling expenses in accordance with the Council's scale will be allowed.

The appointment will be subject to the approval of the Ministry of Health and of the Board of Education, to the successful candidate passing a medical examination, to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and to the Staffing Regulations of the Council, which provide, inter alia, that appointments may be determined at any time by three months' notice.

Applications, stating age, qualifications, and experience, together with copies of three recent testimonials, should be made on the prescribed form and sent to the County Medical Officer of Health, County Hall, Kingston-upon-Thames, from whom copies of the application form may be obtained and to whom any inquiries relating to the appointment should be addressed.

Last day for receipt of applications, Wednesday, 26th January, 1938.

Canvassing, directly or indirectly, will disqualify.

DUDLEY AUKLAND, Clerk of the County Council.

County Hall, Kingston-upon-Thames, 12th January, 1938.

The Gloucestershire Royal Infirmary
AND EYE INSTITUTION, GLOUCESTER.
(225 Beds. Five residents.)

Applications are invited for the post of RESIDENT SURGICAL OFFICER (Male). Salary at the rate of £200 per annum, with board, residence, and laundry. Candidates must be fully qualified and unmarried, and have held previous house appointments. The appointment is for twelve months, which may be extended.

Applications, stating age, qualifications, and nationality, together with not less than three recent testimonials, should be received by the undersigned not later than Wednesday, January 26th.

The elected candidate will be required to enter upon his duties on Thursday, February, 3rd next.

January 6th, 1938. F. J. SYMONS, Secretary.

County Borough of Rotherham.

OBSTETRIC MEDICAL OFFICER AND DEPUTY MEDICAL SUPERINTENDENT, ALMA-ROAD HOSPITAL.

Applications are invited from fully qualified Medical Practitioners for the post of Obstetric Medical Officer and Deputy Medical Superintendent at the Alma-road Hospital, Rotherham, at a salary of £750 per annum, less emoluments to the value of £85.

Candidates must be qualified, registered Medical Practitioners, and must have held previous resident appointments in maternity hospitals, and have had experience in ante-natal work.

The officer appointed will be responsible for the obstetric work at the Alma-road Hospital and at Ferham House Municipal Maternity Home, and in addition will be required to undertake duties in the ante-natal, post-natal, and gynæcological services; organise the maternity emergency service, and assist in the supervision of the district midwives service and other duties assignable to midwifery.

The appointment is subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and the successful candidate will be required to pass a medical examination as to physical fitness.

The appointment will be terminable by three months' notice on either side.

Applications, stating age, experience, and qualifications, accompanied by copies of not more than three recent testimonials and endorsed "Obstetric Medical Officer and Deputy Medical Superintendent," should be sent to the undersigned not later than Tuesday, 1st February.

Forms of application can be obtained from the Medical Officer of Health, Public Health Department, Town Hall, Rotherham. CHAS. L. DES FORGES, Town Clerk.

Municipal Offices, Rotherham, 11th January, 1938.

Princess Alice Hospital, Eastbourne.
(Voluntary General Hospital, 120 Beds; two House Surgeons.)

RESIDENT HOUSE SURGEON (Male) required on 7th February, 1938. Salary at the rate of £150 per annum, with board and laundry.

Applications from registered Practitioners, accompanied by copies of three recent testimonials, should be delivered to the undersigned by the first post on Thursday, 27th January, 1938.

10th January, 1938. W. RUSSELL RUDALL, Secretary.

The Buchanan Hospital,
ST LEONARDS-ON-SEA.
(103 Beds.)

HON. SURGEON.

Applications are invited for the post of Hon. Surgeon to the above Hospital.

The appointment will be made subject to the statutes and rules of the Hospital, copies of which may be obtained from the undersigned.

Any candidate canvassing any member of the Elective Committee shall be disqualified.

Applications, together with twelve copies of three recent testimonials, must be sent to the undersigned on or before Friday, 4th February, 1938. FRANK HART, Secretary.

Clayton Hospital, Wakefield.

Applications are invited for the post of HOUSE SURGEON for six months (renewable), from February 12th, 1938. Candidates should be of British nationality, Male, and single. Salary at the rate of £200 per annum, together with board, residence, and laundry.

Applications, stating age, qualifications, and experience, together with copies of three recent testimonials, should be sent to the undersigned before January 28th, 1938.

T. F. W. MACKEOWN, Superintendent and Secretary.

Cardiff Royal Infirmary.
(Associated with the Welsh National School of Medicine.)

Applications are invited for the post of:—

RESIDENT SURGICAL OFFICER.

Duties will include case record-keeping and teaching, and Surgical work under the direction of the Honorary Staff.

Candidates must be Masters in Surgery of a University of the United Kingdom, or Fellows of one of the Royal Colleges of Surgeons in the United Kingdom, and must have previously held a Resident Hospital post.

The salary will be at the rate of £200 per annum, with board, residence, and laundry. The appointment is for one year, and the holder will be eligible to apply for reappointment and may retain office for three consecutive years.

Further particulars may be obtained from the Medical Superintendent, to whom applications (endorsed "R.S.O."), with not more than three testimonials (copies), must be sent by noon on Monday, January 31st, 1938.

By order of the Council.

R. ARMSTRONG, Medical Superintendent.

St. Albans and Mid Herts Hospital.

Applications are invited for the posts of CONSULTING PHYSICIAN and CONSULTING SURGEON at the above Hospital. Those appointed would be expected to attend at regular intervals and on special request.

Applications are also invited for the posts of NEUROLOGIST and ORTHOPÆDIC SURGEON to the Hospital. Those appointed would be expected to attend on special request only.

Applications should be received by January 31st.

For further details apply to the Secretary of the Hospital.

Manchester Northern Hospital.
(General. 113 Beds.)

HONORARY ASSISTANT PHYSICIAN FOR CHILDREN.

The Committee of Management invite applications for the above appointment. Candidates must be Members of the Royal College of Physicians of London, and are required to forward diplomas, original testimonials, and a certificate of age with their applications on or before January 31st.

Candidates are required to send thirty copies of their application and testimonials to Mr. JAMES C. DANIELS, Secretary, 38, Barton-arcade, Manchester.

Mansfield and District General
HOSPITAL. (150 Beds.)

Applications are invited for the post of HOUSE SURGEON (Male) for the six months commencing February 1st.

Salary £150 per annum, with board, residence, and laundry.

Two other RESIDENT HOUSE SURGEONS.

Applications, stating age and qualifications, together with copies of three recent testimonials, to be sent to the undersigned as early as possible. A. ASHWORTH, Secretary.

Liverpool and District Hospital for
DISEASES OF THE HEART Oxford-street.

HOUSE PHYSICIAN required April 1st for six months. Salary at rate of £100 per annum, with board, residence, laundry.

Applications to Secretary.

AUCKLAND HOSPITAL BOARD, NEW ZEALAND

THE AUCKLAND HOSPITAL BOARD INVITES APPLICATIONS FOR THE FOLLOWING POSTS:

1. RADIOTHERAPIST (X-Ray Therapy and Radium).—The successful candidate will be required to take full control of the Therapy Section of the Radiological Department. The appointment is whole time. Salary will commence at £1000 per annum, rising by annual increments of £100 to £1200 per annum.
2. RADIOLOGIST (Diagnosis).—To take full charge of the Diagnostic Section of the Radiological Department. The appointment is whole time. Salary will commence at £1000 per annum, rising by annual increments of £100 to £1200 per annum.

Preference will be given to candidates possessing the D.M.R.E. or equivalent qualification.

Full information and forms of application may be obtained at the office of the High Commissioner of New Zealand, 415, Strand, London, W.C.2.

H. A. SOMMERVILLE, Secretary.

Auckland, New Zealand, 9th December, 1937.

Keighley and District Victoria

HOSPITAL, YORKSHIRE (WEST RIDING).
(124 Beds.) (Two Residents.)

APPOINTMENT OF SECOND RESIDENT MEDICAL OFFICER.

Duties to commence if possible 14th February, 1938.

Applications are invited from registered Medical Practitioners (Female) for the above appointment. Proof of registration to be furnished before appointment.

Salary £120 per annum, together with full residential emoluments. Term, six months, renewable.

Applications, with particulars of age, experience, nationality, together with copies of two recent testimonials, to be sent to the undersigned not later than Wednesday, 26th January, 1938.

J. YOUNG, Secretary-Superintendent.

Ancoats Hospital, Manchester.

CASUALTY OFFICER (Lady or Gentleman), twelve months' appointment. Salary £250 per annum, with luncheon and tea provided. Applicants who have passed the Primary Fellowship Examination of one of the Royal Colleges of Surgeons will be preferred. The successful applicant will do duty for the Resident Surgical Officer at alternate week-ends and other scheduled times.

Applications, stating age, experience, and qualifications, to be forwarded to the undersigned on or before 26th January, together with copies of three recent testimonials.

By order of the Board.

HERBERT J. DAFFORNE,
General Superintendent and Secretary.

The Royal Portsmouth Hospital,

PORTSMOUTH.
(Six Resident Medical Officers.)

Applications are invited for the posts of:—

(1) HOUSE PHYSICIAN (Male).
(2) HOUSE SURGEON (Male) to the Orthopædic and Fracture Department.
(3) CASUALTY OFFICER (Male).

Salaries £130 per annum each, with board, &c.

All to commence on the 1st March.

Six months' appointments and eligible on completion of term for extension or other resident posts.

Applications, stating age, nationality, and full details, with copies of three testimonials, to be sent to the undersigned on or before 14th February, 1938, from whom all particulars can be obtained.

B. WAGSTAFF, Secretary.

The Jessop Hospital for Women,

SHEFFIELD.
(151 Beds.)

The Board of Management invite applications for the post of RESIDENT ANÆSTHETIST (Female), for a period of six months, commencing immediately.

Salary £100 per annum, together with board, residence, and laundry.

The candidate appointed will be expected to carry out other House Surgeon duties.

Applications, stating age, together with copies of testimonials, should be addressed to the undersigned immediately.

DAVID OSWALD, Superintendent and Secretary.

Christie Hospital and Holt Radium

INSTITUTE, WITHINGTON, MANCHESTER 20.

Applications are invited for the post of RESIDENT SURGICAL OFFICER at the above Hospital, to commence duties immediately.

The appointment is for a period of six months, but will be renewable. Previous resident appointments essential.

Salary at the rate of £150 per annum, plus residence, board, and laundry.

Applications, with full details of previous experience, together with copies of testimonials should be sent to the Superintendent immediately.

West Kent General Hospital

(Incorporated),
MAIDSTONE. (136 Beds.)

Applications are invited for the post of HOUSE PHYSICIAN, who must be a Male of British nationality, and unmarried.

He will have charge of thirty Medical Beds and sixteen Maternity Beds. Experience in midwifery is essential.

Salary at the rate of £175 per annum, with board, apartments, and laundry.

Candidates must possess registered qualifications.

Applications, stating qualifications and experience, together with copies of testimonials, should be sent to the undersigned on or before 3rd February, 1938.

The successful candidate will be required to take up residence on the 15th February, 1938.

EDWARD J. GREGG, House Governor and Secretary.

Royal National Hospital for

CONSUMPTION AND DISEASES OF THE CHEST, VENTNOR, ISLE OF WIGHT.

SECOND ASSISTANT RESIDENT MEDICAL OFFICER (Male), unmarried, required for six months commencing 15th February, 1938. Salary at the rate of £200 per annum, with board, residence, and laundry allowance. The successful candidate will be eligible for promotion to First Assistant Resident Medical Officer for a further six months at a salary at the rate of £300 per annum with similar emoluments. Candidates must be fully qualified in Medicine and Surgery, and previous experience in Tuberculosis and Bacteriological work will be an advantage.

Applications, in candidate's own handwriting, stating age, qualifications, and experience (with one copy of three recent testimonials), to be sent to the Medical Superintendent, Royal National Hospital for Consumption, Ventnor, Isle of Wight, not later than Friday, 28th January, 1938.

Lancashire Mental Hospitals Board.

BROCKHALL CERTIFIED INSTITUTION FOR MENTAL DEFECTIVES, LANGHO, NR. BLACKBURN.

APPOINTMENT OF DEPUTY MEDICAL SUPERINTENDENT.

Applications are invited for the whole-time appointment of Deputy Medical Superintendent at the above Certified Institution.

The salary is £750 per annum, rising by annual increments of £25 to a maximum of £850 per annum. An additional £50 per annum will be paid for the possession of a Diploma in Psychological Medicine.

The appointment will be subject to the provisions of the Asylums and Certified Institutions (Officers' Pensions) Act, 1918.

Applicants are required to submit their applications on a form to be obtained from the undersigned, and applications endorsed "Deputy Medical Superintendent" should be sent to or delivered at my office not later than 12 noon on Monday, the 7th day of February, 1938.

Canvassing, either directly or indirectly, will be a disqualification.

GEORGE ETHERTON, Clerk of the Board.

County Offices, Preston, January, 1938.

University of Aberdeen.

LECTURESHIP IN BACTERIOLOGY.

The University Court will shortly proceed to the appointment of a Lecturer in Bacteriology in the University of Aberdeen.

The salary proposed is £500 to £600, according to qualifications and experience.

Persons desirous of being considered for the office are requested to lodge their names with the Secretary to the University on or before 18th February, 1938.

The conditions of appointment and form of application may be obtained from the undersigned.

H. J. BUTCHART,
Secretary to the University of Aberdeen.

The University, Aberdeen.

County Council of the West Riding

OF YORKSHIRE.
SCOTTON BANKS SANATORIUM.

APPOINTMENT OF SENIOR ASSISTANT MEDICAL OFFICER AND DEPUTY MEDICAL SUPERINTENDENT.

The County Council of the West Riding of Yorkshire invite applications from registered Medical Practitioners (Female) for the appointment of Senior Assistant Medical Officer and Deputy Medical Superintendent (resident) at the Scotton Banks Sanatorium, near Knaresborough, for Women (100 Beds) and children (100 Beds).

Candidates should have previously held an appointment as House Physician or House Surgeon and experience in Pulmonary and Non-pulmonary Tuberculosis and Anæsthetics will be an advantage.

Salary £450 per annum, rising by annual increments of £25 to £550 per annum.

Further particulars and forms of application may be had from the undersigned, and applications, together with not more than three recent testimonials, must be sent to me not later than Monday, 31st January, 1938.

J. CHARLES MCGRATH, Clerk of the County Council.

County Hall, Wakefield, January, 1938.

Royal Surrey County Hospital,
GUILDFORD. (216 Beds.)

Applications are invited for the posts of

(a) One HONORARY SURGEON AND GYNÆCOLOGIST,

(b) One HONORARY SURGEON.

Applicants must hold the degree of Master of Surgery or the Fellowship of one of the Royal Colleges of Surgeons, and they should state whether they are in consultant or general practice.

Duties to commence on the 1st April, if possible.

Applications, with copies of not more than three recent testimonials, should reach the Secretary-Superintendent not later than 28th February, 1938.

Leicester Royal Infirmary.

PART-TIME VENEREAL DISEASES OFFICER (Female).

Applications are invited for the position of Senior Medical Officer (Woman) in charge of Women's V.D. Clinics under general administrative control of the Director of Venereal Diseases Service.

Salary £350 per annum.

The appointment is for a Part-time Medical Officer who will be allowed to engage in private, but not panel, practice. It is understood that an additional part-time appointment valued at £150 per annum will be offered to the successful candidate.

Applicants must be qualified in accordance with the new regulations of the Ministry of Health.

Full details on application to the Secretary.

17th January, 1938.

The Royal Army Medical Corps
ASSOCIATION, 85, Eccleston-square, S.W.1 (Telephone: Victoria 2722), supplies qualified Dispensers, Book-keepers, Laboratory Assistants, Sanitary Assistants, Male Nurses, Mental and Special Treatment Orderlies, Dental Clerk Orderlies, Porters, Caretakers, &c., without charge to respective employers.

Typewriting.—Specialists in Typing
Medical and Scientific Papers, Lectures, Theses, and Books. Highest recommendations. Shorthand typists always available. Proof-reading, indexing. Translations in all European languages.—Margaret Watson Ltd., 16, Palace Chambers, Bridge-street, S.W.1. WHItehall 3838.

Address required of the Dr. Shaw who
employed Walter Thomas Hall in the year 1928.—Write, Box 902, Reynells', 44, Chancery-lane, W.C.2.

An opportunity of some Honorary
Work in a small hospital in the south or west of England would be gratefully welcomed by a Bacteriologist, retiring shortly on superannuation but not useless. Hospital and public health bacteriology, histology.—Address, No. 348, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

Pharmacist, with Diploma Biochemical
Analysis, wants situation as Laboratory Biochemical Technician to a Pathologist for Urine and Blood Analyses. London hospital preferred.—Analyst, 33, Wix's-lane, Clapham, S.W.4.

Wanted immediately or when con-
venient by M.R.C.P. a General or Semi-Specialist PRACTICE in the Exeter area. House not essential. Full capital available.—Address, No. 352, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

South-West England.—Several Country
and Seaside PRACTICES for Disposal at varying incomes. —BECKTON'S MEDICAL AGENCY, 18, Dix's Field, Exeter, and 6, Duke-street, Adelphi, W.C.2.

GRIFFITHS' MEDICAL AGENCY
Tredegar Chambers — **Newport, Mon.**
Telegrams: Ubique. — *Telephone:* 3994.

Reliable ASSISTANTS AND LOCUMS required.

Married Assistant. £500 per annum. House and Car allowance.

Several £350 per annum; indoor.

Resident Patients.—Doctors desiring
accommodation for private patients (mental, neurasthenic, invalid, &c.) may have, post free, illustrated BOOKLET describing residences, &c., of numerous colleagues in all parts—town, country, and seaside—who receive such patients.—Apply, Manager, British Medical Bureau, Tavistock House South, Tavistock-square, London, W.C.1

London.—Cora Hotel,
Upper Woburn-place, near B.M.A. Headquarters. Accommodates 235 visitors. Modern comforts.

Excellent table. A.A. and R.A.C. recommended.

Room, bath, and table d'hôte breakfast, 8s. 6d.

A few rooms 9s. 6d. and 10s. 6d. per person.

HARLEY STREET AND MEDICAL DISTRICT
For all types of available accommodation.

BERTRAM & CO.

Surveyors and Estate Agents.

43, New Cavendish-street, W.1. Welbeck 3703.

Suitable Professional and Residential
PURPOSES.—DEVONSHIRE-STREET (adjoining Portland-place), 3 beautiful newly decorated ROOMS. Lift. C.H.W. Rent £400 per annum.—BERTRAM & CO., 43, New Cavendish-street, W.1. Welbeck 3703.

Small House on Surrey Golf Course,
22 miles Hyde Park Corner. Company's water; electricity. Garage. ¼-acre lawn. Suitable good G.P. Stamp reply.—England, 41, Gordon-square, W.C.1.

Edgware, in quiet cul-de-sac, 3 mts.
from buses, exceptionally appointed Freehold Residence for Sale, 12 rooms, standing in ½ acre well stocked and matured gardens. Greenhouse, brick garage for 3 cars, suitable for Doctor or Nursing Home.—Address, No. 353, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

Consulting Rooms with use of Waiting
Room to be LET.

HARLEY-STREET	£150–£200 per annum.
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Statement of Accounts

31st December, 1937.

LIABILITIES

	£	£
Current, Deposit and other Accounts, including Reserve for Income Tax and Contingencies and Balance of Profit and Loss	421,115,001	
Balances in Account with Subsidiary Banks	13,530,322	
		434,645,323
Acceptances and Endorsements, &c., for account of Customers		8,532,516
Paid-up Capital		15,858,217
Reserve Fund		10,750,000

ASSETS

Cash in hand, and with the Bank of England	54,839,825
Balances with other British Banks and Cheques in course of collection	15,943,494
Money at Call and Short Notice	27,068,850
Bills Discounted	50,362,681
Investments	102,423,395
Investments in Subsidiary Banks (at cost, *less* amounts written off):—	
The British Linen Bank—**£1,240,060 10s.** Stock	3,720,182
The Union Bank of Manchester Limited—**300,000** Shares of **£5** each, **£2 10s.** paid	750,000
Other Subsidiary Banks—(including fully paid Shares and **500,000 "B"** Shares of **£5** each, **£1** per Share paid up, in Barclays Bank (Dominion, Colonial and Overseas) and **1,000,000** Shares of **£1** each, **5s.** per share paid up, in Barclays Bank (France) Limited)	2,498,362
Advances to Customers and other Accounts	196,264,896
Liability of Customers for Acceptances and Endorsements, &c.	8,532,516
Bank Premises and Adjoining Properties (at cost, *less* amounts written off)	7,381,855

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COMPOSITION

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Fat	6.5
Protein	22.0
Lactose	22.5
Cane Sugar	25.0
Other carbohydrates (including predigested wheat flour)	8.0
Calcium Gluconate	10.0
Other Mineral Salts	4.0
Moisture	2.0
	100.0

Calorific value per oz. 125
Vitamin D International unit per reconstituted pt. 250

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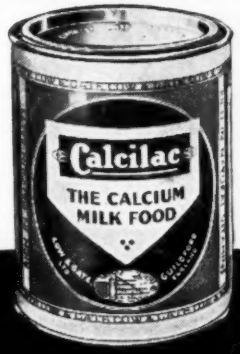

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Experimental and clinical investigations by Jores and Goyert (1936).—Fortschr. Ther. 12, 159.

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Before Bellergal Treatment			After Bellergal Treatment		
Oculocardiac Reflex	Dermo-graphism	Respiratory Arrhythmia	Oculocardiac Reflex	Dermo-graphism	Respiratory Arrhythmia
— 6	r 15	— 2	—17	r 19	—19
+13	w 4	+17	+ 3	w 1	+ 1
+ + 1	r+w 1	+ + 1	+ + 0	r+w 0	+ + 0

Under oculocardiac reflex, + + signifies not only slowing but also weakening of the pulse. Under dermographism, r = red, w = white, r + w = white dermographism with red margin.

"It is seen that the oculocardiac reflex was negative in only 6 cases before treatment with Bellergal but in 17 cases after treatment; white dermographism was observed in 4 cases before but only in one case after treatment; respiratory arrhythmia, present in 18 cases, disappeared except in one case."

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Action of Adrenaline — Action of Pilocarpine

—— Before Bellergal treatment
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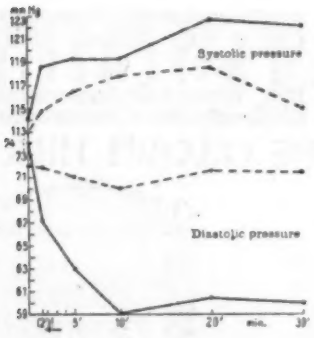

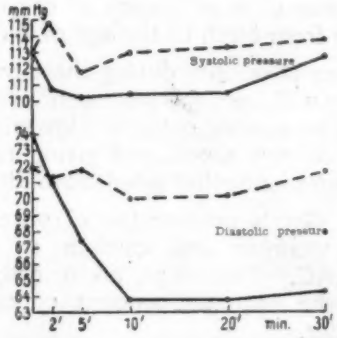

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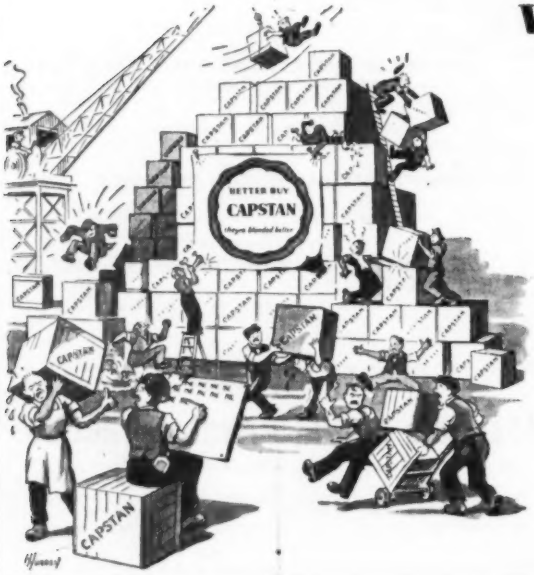

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Please send full particulars of the "University Care of Clothes Service."

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PROSTATE GLAND TROUBLE

in ELDERLY PEOPLE

It has long been recognised by the Medical Profession that applications of small continuous electrical currents frequently give relief in the distressing cases of too frequent micturition, regarding which they are consulted by patients of advancing age.

The small apparatus illustrated is convenient for use by such patients under the direction of their Medical adviser, if in his opinion operation is inadvisable. The current provided by a small number of dry cells is conveyed through suitable convenient electrodes to the parts affected. Shock or accidental excess of current is absolutely impossible. The first cost and maintenance of the apparatus is very moderate.

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EFFECTIVE CALCIUM THERAPY THROUGH CALCIUM RETENTION

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The Antiphlogistic Plaster is ready for immediate use, only requires heating by any form of fire or on a hot water bottle. No mess, wrapped in gauze which prevents "crumbs", can be removed and warmed up every few hours, or a hot water bottle can be applied to the Plaster. One Plaster can be used three nights running or continuously for 36 hours.

Composition. A chemical and physical combination of Bassim Parkii, the new Salicylic Ester (S.E.D.), Colloidal Kaolin, Glycerine, Pine Oils and Eucalyptus.
Used in many Hospitals including the Royal Mineral Water Hospital, Bath.

Supplied. Six Plasters in a box, 4"×4", 6"×6", 6"×10", 9"×9".

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The Managing Director, KI-UMA LIMITED, BATH

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"MOBILIX"

MOBILE X-RAY

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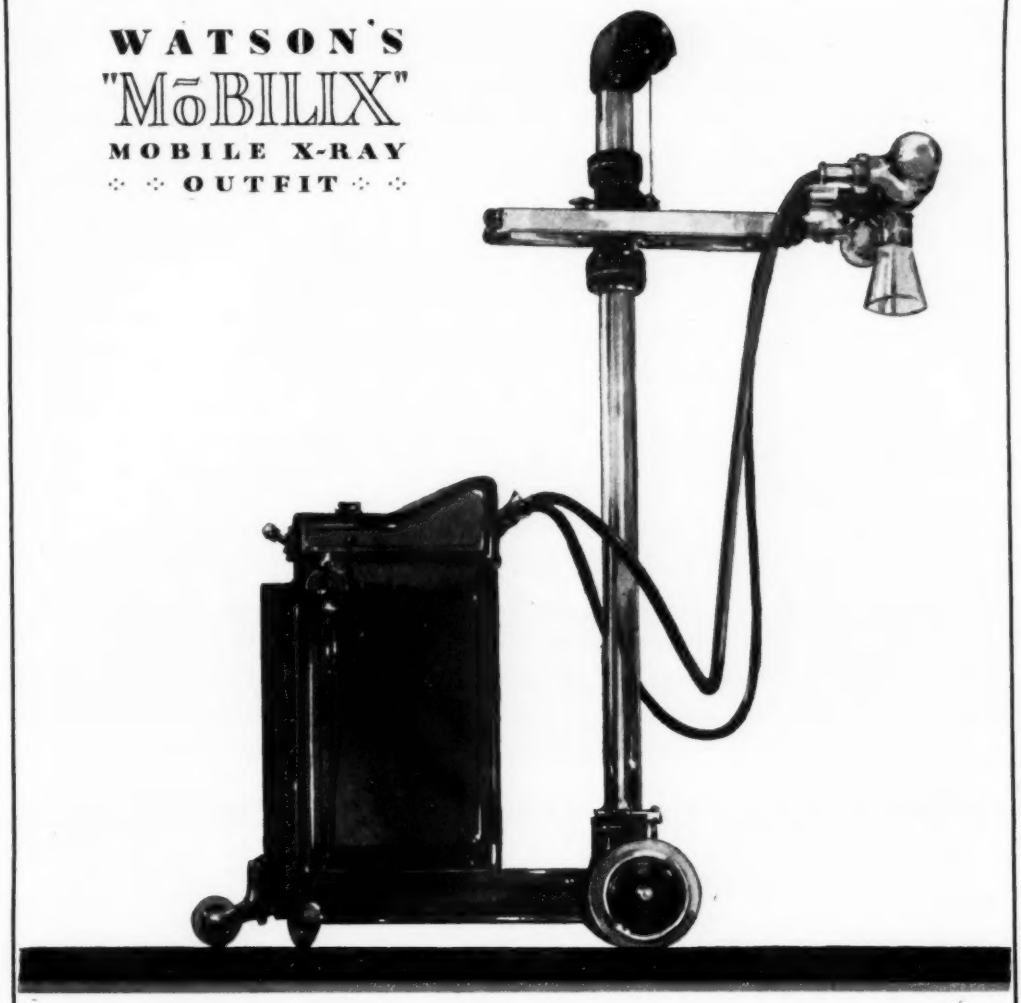

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It is largely to our practice of affording facilities for extensive practical tests before purchase that we owe the exceptional popularity of the "Mobilix" Outfit.

Time and again, independent tests have established beyond doubt the superiority of the radiographic results. In addition the "Mobilix" has many exclusive refinements of electrical design, an unusually wide range of adjustability and—it is *really* mobile.

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Branches at Bristol, Birmingham, Manchester and Edinburgh

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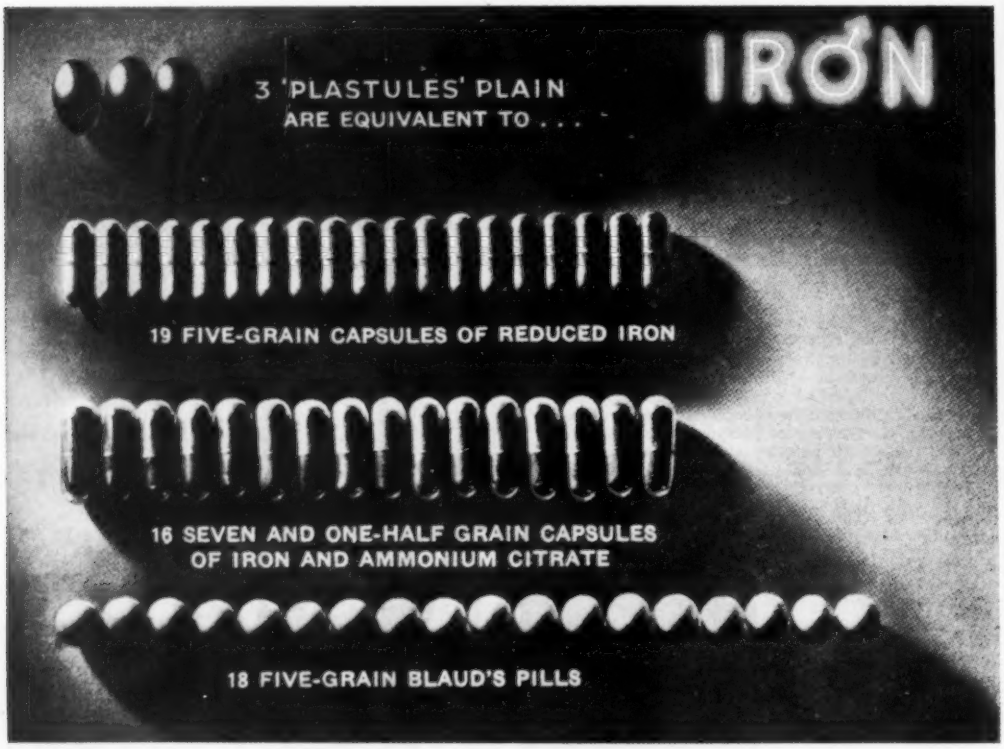

'PLASTULES' BRAND HÆMATINIC COMPOUND

IMPROVED IRON TONIC

Leading authorities are of the opinion that large doses of iron are no longer necessary for the successful treatment of hypochromic anæmia and debility. Independent investigations have shown that 'Plastules' yield rapid clinical response, equivalent to the results obtained from massive doses of other forms of iron. The average patient requires only three 'Plastules' Plain daily which obviates the unpleasant effects usually associated with massive iron feedings. Prescribe 'Plastules' for your patients and note the immediate results—appetite and colour return rapidly.

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(Magnesium trisilicate Evans)

A safe antacid

For the treatment of hyperacid gastritis, acid fermentation and gastric ulcer

Novasorb is produced by methods which ensure an optimum clinical value with freedom from any unfavourable secondary effect. Even when given in quantity sufficient to neutralise free hydrochloric acid entirely it cannot cause alkalosis.

DOSAGE: *Approximately one teaspoonful, modified according to the necessities of each case. Overdosage is not harmful.*

Evans Sons Lescher & Webb Ltd.
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NOVASORB is issued in bottles:
4-oz. 2/6; 8-oz. 4/9; 16-oz. 9/-
5-lbs. (Hospital size) 40/-
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(*Compound Calcium Mandelate B.D.H.*)

For the treatment of Urinary Infections

Mandecal is a pleasantly-flavoured preparation of pure calcium mandelate in powder form. Being readily miscible with water Mandecal is simple of administration; it is therapeutically effective, and its administration is not followed by any dyspeptic discomfort such as that which occasionally occurs during protracted treatment with other mandelic acid preparations.

Mandecal is available in bottles containing 130 grammes, sufficient for treatment lasting seven days.

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THE BRITISH DRUG HOUSES LTD. LONDON N.1

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IS PROMPTLY RELIEVED

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EVATMINE (B.O.C.)

(Prepared in France)

A scientific combination of adrenalin and pituitary ext.

Supplied in boxes of 6 or 12 1 c.c. ampoules for hypodermic injection

THIS PREPARATION is also successfully employed in :— PERSISTENT COUGH, CROUP and other spasmodic affections, URTICARIA, ANGIO-NEUROTIC ŒDEMA, CHILBLAINS, COLLAPSE and SHOCK.

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A pleasant and beneficial night's rest is assured when 'Endrine' is used immediately before retiring. It ensures easy breathing by quickly relieving nasal catarrh.

'Endrine' with its carefully selected and well-balanced ingredients, acts as a mild astringent and so, by reducing nasal congestion, promotes sinus drainage and improved breathing.

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Two varieties: **Original formula (Buff Label)** **'Endrine' Mild (Green Label)**

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A rare distinction is that enjoyed by DINNEFORD'S MAGNESIA which —after more than 100 years—we still believe, retains the respect and goodwill of the Medical Profession.

DINNEFORD'S

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Now also supplied in tablet form for use away from home

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In Gastro-Intestinal Disorders

In such conditions it is a primary consideration that the food should be light and unirritating. In gastric and duodenal ulceration and in the dyspepsias,

'ALLENBURYS' BEEF JUICE

may safely and advantageously be given, where beef tea would often increase the pain and have a harmful effect. Because of its high protein and vitamin content, obtained by preparation at a low temperature and concentration *in vacuo*, 'Allenburys' Beef Juice provides a valuable means of keeping up a patient's strength in persistent sea-sickness and in such diseases as dysentery and cholera.

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(SQUIRE)

Terperoin Elixir presents the therapeutic properties of Terpin Hydrate, Codeine, and Oil of Pine in a palatable and reliable form.

It is especially useful in the troublesome cough of

PULMONARY PHTHISIS, EMPHYSEMA, LARYNGEAL CATARRH, and ACUTE and CHRONIC BRONCHITIS

A very soothing Linctus for irritating Night Coughs

One or two teaspoonfuls—undiluted—usually give instant relief

In 4-oz., 8-oz., and 16-oz. bottles

Also prepared with Diamorphine instead of Codeine—subject to D.D.A. regulations

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As Digestion is Established—

Higher protein intake is indicated

Allenburys Humanized Milk Food No. 2 retains the essential features which make No. 1 so satisfactory, but its Protein-Fat-Carbohydrate ratio is adjusted to suit the developing child.

(1) Lactalbumen content equal to that of breast milk.
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(4) Calcium, phosphorus, and iron in adequate amounts.
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STREPTOCIDE

(*p*-aminobenzenesulphonamide Evans)

For oral administration

The value of Streptocide in Puerperal Fever

is fully described in a report to the

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Other indications include

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Tonsillitis. Streptococcal Sore Throat

Gonorrhœal and B.coli infections of the Genito-urinary Tract

Streptocide is issued in tablets as follows:

	0.5 grm. (7½ grains approx.)	0.25 grm. (3¾ grains approx.)	
In bottles of 25 Tablets	2/–	1/9	Reduced Prices.
" 100 "	6/6	5/3	
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Please indicate the strength desired when prescribing

Made at EVANS BIOLOGICAL INSTITUTE by

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LIVERPOOL and LONDON

For the patient who is depressed

A course of Livogen is especially recommended for the patient who is depressed and run-down.

The appetite is stimulated and with the accompanying renewed vitality and reinstatement of normal digestive processes the signs of depression disappear, and the healthy enjoyment of life is renewed.

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Sample on request

THE BRITISH DRUG HOUSES LTD.

LONDON N.1

Lgn/S/55

PLEASANT PROTECTION

'Dettol' owes its ever increasing use to the fact that it combines high germicidal efficiency with cleanliness and pleasantness.

'Dettol' can be used at really effective strengths without discomfort or even staining—marked advantages over carbolic and cresylic antiseptics. Its high bactericidal power is maintained in the presence of blood and other organic matter.

'Dettol' is a clean, clear, non-poisonous fluid, with a most agreeable odour.

Sold by chemists in bottles, 1/-, 1/9, 3/-, 5/- and 7/6; and in larger sizes for Medical and Hospital use. Sample, and full information on request.

'DETTOL'

TRADE MARK

THE MODERN ANTISEPTIC

RECKITT & SONS, LTD. (PHARMACEUTICAL DEPT.) HULL. LONDON: 40, BEDFORD SQUARE, W.C.1

TRIPLE ADVANCE IN PARENTERAL LIVER THERAPY

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Each 2 cc. ampoule of Examen Liver Extract contains the hæmopoietic factor derived from 100 grams of fresh liver. This unusually high concentration permits of small and relatively infrequent dosage. *For treatment of pernicious anæmia:* 4 cc. and then 2 cc. each fortnight until blood count is normal. *For maintenace:* 2 cc. each 3-5 weeks.

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The high potency of Examen is contained in an average of *only* 10-15 mgms. of total solids in each 2 cc. ampoule. Examen is painless on injection and produces no allergic reactions.

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Extensive clinical trials preceded the introduction of Examen and established that its potency and purity are completely dependable. Furthermore, every batch of Examen is individually subjected to clinical test. Examen may thus be regarded with confidence as the most efficient liver extract available for the control of pernicious and other macrocytic anæmias.

PRICES:
3 × 2 cc. G.L. ampoules, 13/4 6 × 2 cc. ampoules, 25/-
Less usual professional discount.

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Improved Lubrication Therapy

THE advantages of lubrication therapy over the more or less drastic depuratives are too well known to require reiteration. Physicians have, however, experienced the disadvantages which ordinary medicinal paraffin possesses — viz., uncleanly in use, unpleasant insipidity and risk of "leakage."

"Cristolax" brings a new efficiency to the technique of lubrication therapy. 50 per cent. of liquid paraffin of the highest purity and optimum viscosity, is so skilfully incorporated in "Wander" Dry Malt Extract that every vestige of disagreeable oiliness is completely eliminated.

"Cristolax" is so pleasant to the taste that it can be prescribed with entire confidence for the most fastidious patient. Its digestive and nutritive value render it of special service in constipation associated with defective assimilation, dyspepsia and general debility.

'CRISTOLAX'

BRAND

MALT EXTRACT WITH PARAFFIN

Lubricant-Laxative-Nutrient-Digestive

A liberal supply for clinical trial sent free on request.

A. WANDER LTD., 184 Queen's Gate, London, S.W.7.

Laboratories and Works: King's Langley, Herts.

M. 259.

Design from Greek Vase. Woman seated, to whom her attendant brings a Toilet Case, Pyxis, Sash and Wreath.

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FORMERLY KNOWN AS GARGARISMA FORMALIN CO. (HEWLETT'S)

An excellent preparation containing Formalin, Glyc. Acid. Carbolic., Tinct. Pyrethri, etc. When diluted in the proportion of one drachm in eight ounces of water, it forms an efficient Gargle for infectious Sore Throat, etc., or an Antiseptic Mouth Wash.

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"This is a most economical, efficient, and pleasant Gargle and Mouth Wash. It is highly concentrated, one fluid drachm being sufficient for an eight ounce bottle. It has been employed by dental surgeons for use after extractions, etc., and is also suitable for general purposes."—*Medical Annual.*

Dr. G. H. speaks very highly of Gargarisma Formalin Co. used twice daily (Gargle—one drachm to eight ounces water) for throat irritation in professional singers.

"I have tried your Gargarisma Formalin Co. and find the patients like it."—E. W. S., L.D.S.Eng.

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TRISAN

Anti-Asthmaticum

Potassium Iodide B.P.
Chloralhydrate B.P.
Soda Barbitone B.P.
Glycerine, Alcohol, Sugar.
Flavouring, distilled water.

"TRISAN" does what the medical practitioner requires of a remedy for asthma.

It relieves the spasmodic condition of the bronchial muscles, liquefies the mucus, facilitates its expectoration, improves the general condition and makes the patient fit for work. "TRISAN" may be beneficial even in obstinate cases where other preparations fail. It can be given for a long time, in equal doses, without losing its effect owing to habituation.

INDICATIONS—Bronchial asthma, asthmatic attacks and conditions, particularly night asthma.
CONTRA-INDICATIONS—Exophthalmic goitre.
PACKING—Original bottle of 4-ozs. net.

Free samples on application.

Manufactured in England by

HOMMEL'S HÆMATOGEN & DRUG CO. 121, NORWOOD ROAD, LONDON, S.E.24

Convalescence

In convalescence a tonic is required that will co-operate with, and augment, the natural recuperative powers of the body, rather than one which will have only an immediate stimulating effect. In the latter case there is always the danger of disappointment, due to an artificial improvement that the natural powers are unable to stabilise.

Medical evidence extending over many years has established the value of Sanatogen in promoting convalescence. In "The Elements of Pharmacy, Materia Medica and Therapeutics", Sir William Whitla writes:—

> "... *The interesting and valuable researches conducted by Tunnicliffe and Beddoes upon metabolism, in which Sanatogen was experimented with, establish the fact that its organic phosphorus is almost entirely assimilated when the food is administered in the amount necessary for the needs of the body. When given in addition to other food, the amount of nitrogen and phosphorus retained in the organism is increased; the tissue metabolism is more complete, the constituents of the ordinary food being more thoroughly utilised; appetite is increased and the body weight augmented.*"

Similarly gratifying observations are constantly being notified, and, as Sanatogen is entirely free from fats, sugars and carbohydrates, it can safely be prescribed in all types of cases. It is rapidly and easily digested and assimilated, even in cases exhibiting severe gastric inflammation, and for this reason it is a valuable addition to enemata. It can be added to any non-acid beverage or food, and, consequently, monotony in its administration can always be avoided.

SANATOGEN

A CHEMICAL COMBINATION OF 95% MILK CASEIN AND 5% SODIUM GLYCEROPHOSPHATE

Clinical samples and literature available on request to

GENATOSAN LTD.,
LOUGHBOROUGH,
LEICESTERSHIRE.

DOSAGE. For children and adults two teaspoonfuls three times daily, or according to circumstances. For infants, ½ teaspoonful added to each bottle feed.

Sold by all chemists
price 2/3 to 19/9

MARMITE (YEAST EXTRACT)

IN PREVENTIVE MEDICINE

Susceptibility to infection is known to be minimised by correct nutrition.

It is particularly important to ensure that ample supplies of the vitamin B complex are taken, as deficiency of these factors is not uncommon, and may be responsible for a considerable amount of preventable illness.

Marmite contains all the vitamins of the B group and has proved of undoubted value in preventive and curative medicine.

For sample and literature apply to:—

THE MARMITE FOOD EXTRACT CO. LTD., Walsingham House, Seething Lane, London, E.C.3

In jars: 1-oz. 6d., 2-oz. 10d., 4-oz. 1s. 6d., 8-oz. 2s. 6d., 16-oz. 4s. 6d. Special quotations for Marmite packed for use in hospitals, clinics, welfare centres, etc.

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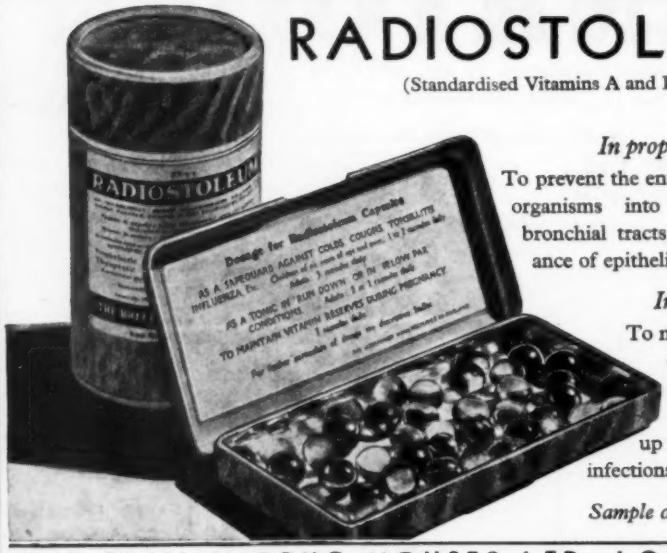

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(Standardised Vitamins A and D)

In prophylaxis

To prevent the entrance of infective organisms into the nasal and bronchial tracts by the maintenance of epithelial integrity.

In treatment

To mitigate the effects of coughs, colds and influenza, also to aid in building up resistance in acute infections.

Sample on request

THE BRITISH DRUG HOUSES LTD. LONDON N.1

Rstm/S/34

DO YOU KNOW?

1. A cereal food as rich in protein as cooked beef or cheese? (139 protein calories per 100 gms.)

2. A food which contains only 5 per cent. of moisture as against 76 per cent. in boiled white fish and 66 per cent. in eggs?

3. A food that provides 200 units of Vitamin B_1 for 1d. as against the 200 for 8d. of yeast and the 200 for 1s. 2d. of bran?

4. A cereal food that is pre-eminently suitable for patients on light (even fluid) diet?

5. A food that solves the problem of supplying the 500 to 1,000 International units of Vitamin B_1 needed daily by pregnant women and nursing mothers merely by adding from $1\frac{1}{4}$ to $2\frac{1}{2}$ ounces to their diet?

Bemax supplies the answer to these and many other questions. In the treatment of disease by dietetic methods Bemax commends itself on many grounds:—

1. It is an entirely natural food, without additions of any kind.

2. Its fibre content is very low (1.5 per cent.) and cannot affect even the most delicate tissues.

3. The normal daily dose of Bemax supplies, in addition to Vitamin B_1, significant quantities of Vitamins B_2 and B_6, Copper, iron and phosphorus, as well as rich quantities of Vitamin E and other essential dietary elements.

4. It is delightfully palatable and the administration of massive doses of B_1 presents no difficulty on this score.

5. It is by far the most economical method of supplying the diet with Vitamin B_1—the daily spoonful contains from 4 to 10 times as much as the recommended daily dose of certain Vitamin B_1 concentrates advertised to the medical profession.

6. The quantity of Vitamin B_1 supplied by the normal daily dose of Bemax—one tablespoonful—is 200 International units, *an amount sufficient to raise a deficient diet to an optimal level.*

For years it has been the policy of the proprietors of Bemax to ensure its Vitamin B_1 activity by biological assay of every day's output. So far as is known, Bemax is the only food product for which such a claim is or can be made.

BEMAX

A unique natural source of accessory nutritional factors.

Clinical sample and literature on request.

The Bemax Laboratories (Dept.L.48), 23, Upper Mall, London, W.6.

"ALOCOL"

Colloidal Hydroxide of Aluminium

Effective in Nervous Dyspepsia

WHATEVER be the fundamental cause of nervous dyspepsia, it is acknowledged that alleviation of the gastric symptoms is an important part of effective treatment.

Nervous dyspepsia connotes hypersecretion. This causes flatulence, sour stomach, discomfort and perhaps pain. "Alocol" is the ideal gastric sedative since its action is prompt and lasting and entirely free from harmful effects.

"Alocol" acts by adsorbing excess of free hydrochloric acid in the stomach, forming a colloidal jelly which passes through into the intestines and is finally evacuated. "Alocol," therefore, actually removes from the system the causative radicle (Cl) instead of merely temporarily neutralizing it. "Alocol" does not interfere with normal digestion, nor does it determine any unpleasant secondary reactions. It is issued in tablet and powder form.

Complete chemical history of "Alocol," with convincing clinical reports and supply for trial, sent free to physicians on request.

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184, Queen's Gate, London, S.W.7.
Works and Laboratories:
KING'S LANGLEY, HERTFORDSHIRE

Indian Saraswati playing the Vina. (12th Century.)

M285

ALASIL

Better Salicylate Therapy

WHATEVER be the season of the year, there is a wide sphere of utility for "Alasil," the improved form of salicylate medication. "Alasil" is a very definite advance on ordinary compounds of salicylic or acetyl-salicylic acid both in therapeutic efficiency and in freedom from unpleasant gastro-intestinal sequelæ. This high tolerability is due to the fact that "Alasil" is composed of calcium acetyl-salicylate—the least irritating of the salicylate compounds—and "Alocol" (Colloidal Hydroxide of Aluminium), a powerful gastric sedative and antacid.

A careful series of experimental tests has recently shown that "Alasil" is more completely absorbed than ordinary salicylate compounds, and that it is practically free from the risk of liberating free salicylic acid in the stomach Wide clinical experience anticipated these findings by demonstrating that the use of "Alasil" can be pushed or prolonged to a much greater extent than ordinary salicylate compounds, and that it can be given with equal safety to children, adults, the aged, and patients with finely-balanced digestive capacities.

A supply for clinical trial with full descriptive literature sent free on request.

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M269

Nephritin

TRADE MARK BRAND

IN RENAL CONDITIONS—

HORMONES OF THE NORMAL KIDNEY

Samples to Physicians on request.

REED & CARNRICK (CANADA) LTD.
Toronto, Ontario
The Pioneers in Endocrine Therapy.
Distributors in Great Britain:
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Bottles of 80, 500 and 1,000 tablets.

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SULPHANILAMIDE.....BOOTS

(p-aminobenzenesulphonamide)

INDICATIONS

Puerperal sepsis
Erysipelas
Streptococcal septicaemia
Tonsillitis due to haemolytic streptococci
Scarlet fever Cellulitis
Meningococcal infections
Gonococcal infections

DOSAGE

Two tablets three or four times daily; larger doses may be given at the discretion of the physician.

SULPHANILAMIDE ... BOOTS is a stable preparation of low toxicity for the oral treatment of haemolytic streptococcal and other bacterial infections. Issued in tablets of 0.5 gm. (7½ gr. approx.)

Per bottle of 25 tablets - 2/1½ Per bottle of 100 tablets - 7/6

Discount to the medical profession. Sample and literature sent on request.

Obtainable through any branch of ...

The Boots Chemists

or from the **WHOLESALE & EXPORT DEPT.,**

BOOTS PURE DRUG CO. LTD. Nottingham. Eng.

HYPEREMESIS GRAVIDARUM

CLINICAL RESULTS EMPHASISE THE VALUE AND IMPORTANCE OF SUPRARENAL CORTEX MEDICATION IN THE TREATMENT OF VARIOUS TYPES OF VOMITING DUE TO PREGNANCY.

'GLANOID' SUPRARENAL CORTEX IS SUPPLIED IN TABLETS AND AMPOULES.

LITERATURE AND RÉSUMÉ OF CASE REPORTS WILL BE SENT ON REQUEST.

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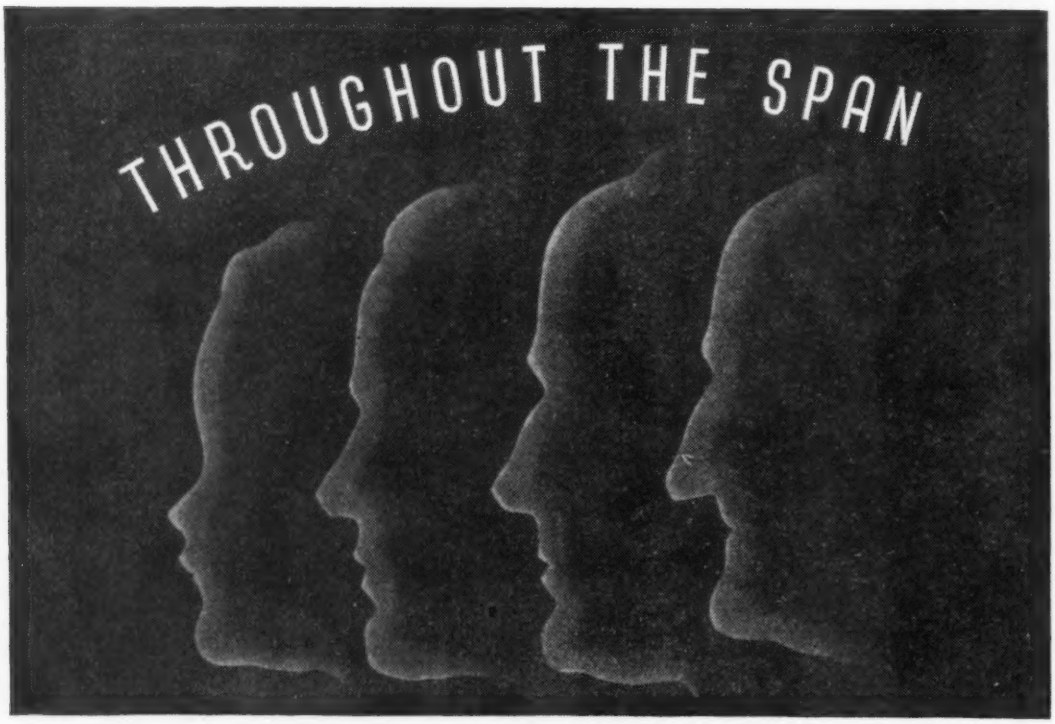
Telephone: NATIONAL 2424 **Telegrams: "ARMOSATA-CENT" LONDON**



The problem of treatment in intestinal stasis is definitely settled in the minds of those thousands of physicians who depend on Agarol.

Agarol is a readily miscible emulsion of high-grade mineral oil and agar-agar with phenolphthalein. Free from alcohol, alkali and sugar, it is suitable for use in every condition where an evacuant is indicated and at every age period.

The palatability of Agarol appeals to all. In appropriate doses it is mild enough for infants, yet active enough for the demands of adult age.

Supplied in 4½ oz., 7½ oz. and 17 oz. bottles.

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The average adult dose is one tablespoonful.

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Agarol is not advertised to the public.

WILLIAM R. WARNER & CO. LTD., POWER ROAD, CHISWICK, LONDON, W.4

AGAROL

BRAND COMPOUND

FOR CONSTIPATION

Early diagnosis and treatment in Diphtheria

FOR DIAGNOSIS

BRAHDY "RAPID CULTURE" TUBES *Lederle* permit identification of Cl. diphtheriæ, if present, *four hours* after the culture is taken, as compared with the 18 to 36 hours required for Loeffler cultures. The four-hour incubation period does not permit an overgrowth of contamination organisms, which do not grow well on this medium.

The technique is simple and convenient and the organisms grow with characteristic morphology.

FOR TREATMENT

DIPHTHERIA ANTITOXIN "GLOBULIN MODIFIED" *Lederle*, the recently announced antitoxin which is characterised by—

- *its low protein content.*
- *its high concentration.*
- *its low viscosity.*
- *its lowered property of inducing serum disease.*

The earlier in the disease antitoxin is given, the more certain and rapid is its effect. The first injection should be large enough to control the disease. One large dose given early is more efficient than the same amount given in divided doses.

The increased potency and reduced protein content of the *Lederle* product has resulted in a greater ease of administration of adequate dosage and, of the greatest importance, a measurable lowered property of inducing serum sickness.

Chas. F. Thackray LTD

The Old Medical School, **LEEDS**
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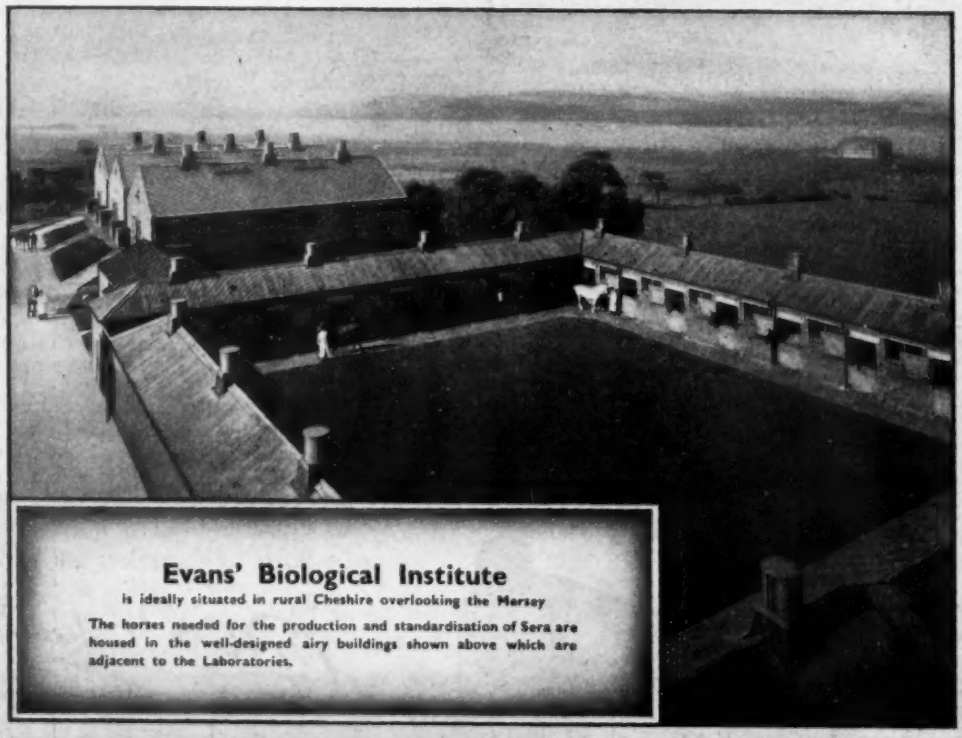

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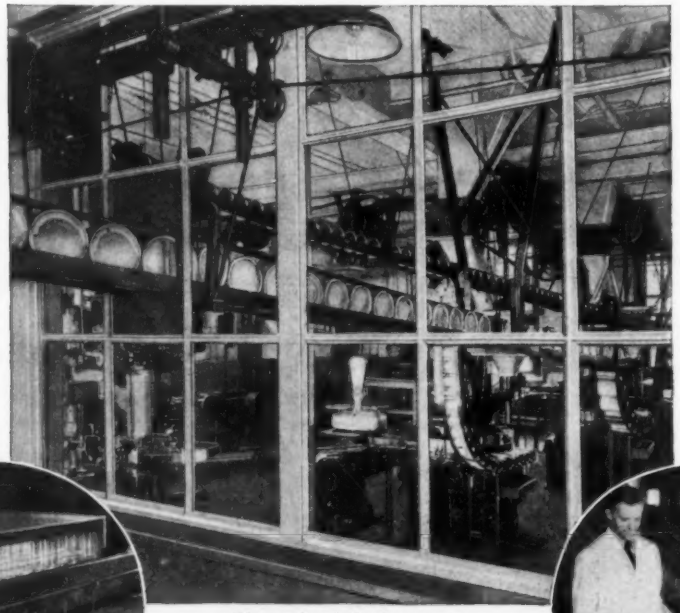

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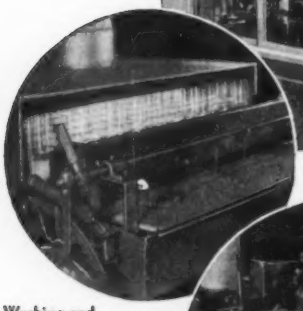

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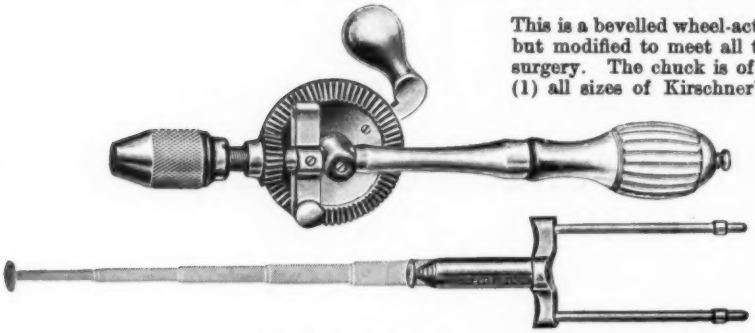

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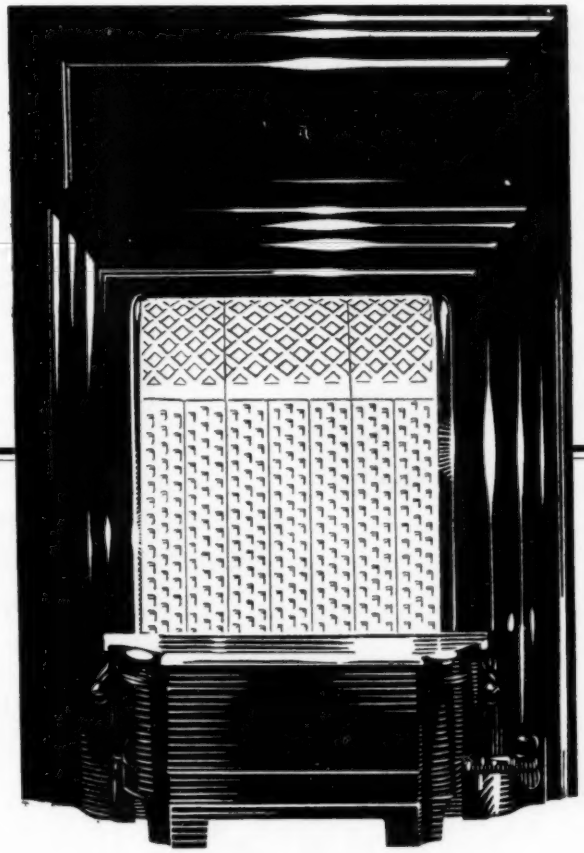

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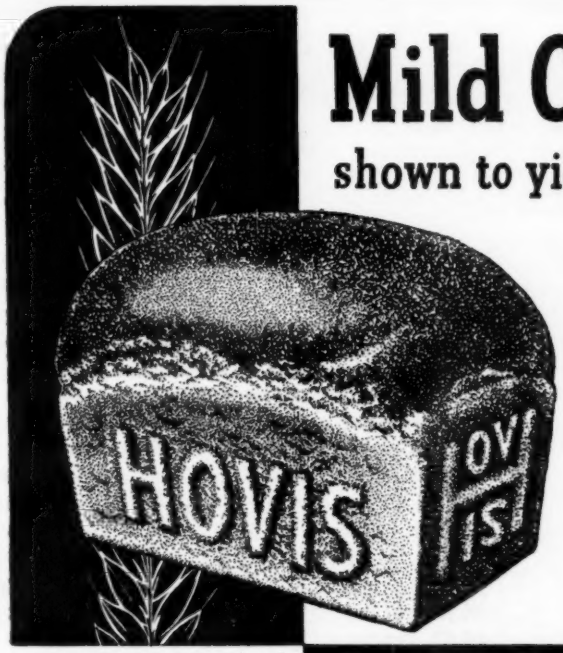

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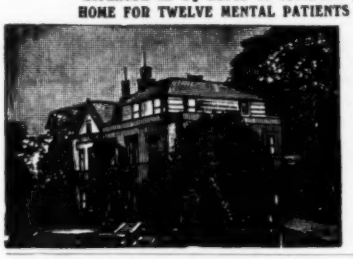

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INTERVIEWS IN LONDON BY APPOINTMENT.

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PRESIDENT: THE MOST HON. THE MARQUESS OF EXETER, C.M.G., A.D.C.

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This is a Reception Hospital, in detached grounds with a separate entrance, to which patients can be admitted. It is equipped with all the apparatus for the most modern treatment of Mental and Nervous Disorders. It contains special departments for hydrotherapy by various methods, including Turkish and Russian Baths, the prolonged immersion bath, Vichy Douche, Scotch Douche, Electrical Baths, Plombières treatment, &c. There is an operating Theatre, a Dental Surgery, and X-ray Room, an Ultra-violet Apparatus, and a Department for Diathermy and High Frequency treatment. It also contains Laboratories for bio-chemical, bacteriological, and pathological research.

MOULTON PARK

Two miles from the Main Hospital there are several branch establishments and villas situated in a park and farm of 650 acres. Milk, meat, fruit, and vegetables are supplied to the Hospital from the farm, gardens, and orchards of Moulton Park. Occupation therapy is a feature of this branch, and patients are given every facility for occupying themselves in farming, gardening, and fruit growing.

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For the reception and treatment of PRIVATE PATIENTS of both sexes of the UPPER AND MIDDLE CLASSES suffering from Mental and Nervous Diseases, either voluntarily, temporarily, or under certificate. Patients are classified in separate buildings according to their mental condition. Situated in park and grounds of 400 acres. Self-supported by its own farm and gardens in which patients are encouraged to occupy themselves. Every facility for indoor and outdoor recreation. For terms, prospectus, etc., apply MEDICAL SUPERINTENDENT. *'Phone:* Ashton-in-Makerfield 7311. *Tele. Address:* Street, Ashton-in-Makerfield.

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Residential treatment of
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including Alcoholism and other Addictions
(Certifiable cases are not received)

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For particulars apply to the Secretary, Pendyffryn Hall, Penmaenmawr, North Wales. 'Phone 20

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This REGISTERED HOSPITAL, with a SEASIDE BRANCH at Colwyn Bay, N. Wales, is for the treatment and care of those of the Upper and Middle Classes suffering from MENTAL AND NERVOUS DISEASES.

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(18 MILES FROM LONDON.)
400 feet above sea.
HOME for few LADIES Mentally Afflicted. Large grounds. Liverpool st. 26min. Stations Brentwood, Shenfield, one mile. Boarders received. Apply Dr. Haynes Telephone and Telegrams: Haynes Brentwood 45.

The Hospital for Sick Children,
Great Ormond-street, London, W.C.1.

Applications are invited for the post of ASSISTANT PATHOLOGIST (Male).

Candidates, who must possess a legal qualification to practise, are required to send in their applications, addressed to the Secretary, accompanied by copies of not more than three testimonials, given specially for the purpose, before 12 o'clock on Monday, 31st January, 1938.

The appointment is made for one year, and is non-resident.

Salary £400 per annum, with facilities for Private Pathological Practice.

The selected candidate will be required to take up his duties not later than 16th February, 1938, preferably earlier.

All candidates must be in attendance to appear before the Joint Committee on Wednesday, 2nd February, 1938, at 4.45 P.M.

Forms of application, copy of the rules, and details of the appointment, will be supplied on application to the undersigned.

January, 1938. HERBERT F. RUTHERFORD, Secretary.

The Hospital for Sick Children,
Great Ormond-street, London, W.C.1.

There are vacancies for two ANÆSTHETISTS.

Candidates must be registered Medical Practitioners and be prepared to take up their duties at an early date.

The appointment is for one year, but is renewable, and carries with it an honorarium of £15 15s. per annum, and an allowance of £6 6s. to provide a substitute during annual leave.

Candidates are invited to send in their applications, addressed to the Secretary, with copies of not more than three testimonials written specially for the purpose, before 12 o'clock on Monday, 31st January, 1938, and must appear personally before the Joint Committee at their meeting on Wednesday, 2nd February, 1938, at 4.45 P.M.

Forms of application and copies of the Rules are obtainable from the undersigned.

HERBERT F. RUTHERFORD, Secretary.

January, 1938.

The Queen's Hospital for Children,
Hackney-road, London, E.2.

HOUSE SURGEON required 1st March, 1938.

CASUALTY OFFICER required 1st March, 1938. Some Ophthalmic work additional.

Six months' appointment. Salary at the rate of £100 per year, with board, lodging, and laundry.

Applications must be made on forms to be obtained from the undersigned, and must be sent in, with copies of not more than four testimonials, on or before the 4th February, 1938.

CHARLES H. BESSELL, Secretary.

1st January, 1938.

London Hospital, E.1.

There is a vacancy for the post of FIRST ASSISTANT to the Department of Thoracic Surgery. Candidates must be Fellows of the Royal College of Surgeons (England).

The appointment is half-time and for one year. Salary £150 per annum.

Applications should be made to the House Governor, and should arrive not later than Saturday, February 12th.

ARTHUR G. ELLIOTT, House Governor.

London Hospital, E.1.

Applications are invited for the post of MEDICAL FIRST ASSISTANT AND REGISTRAR. The appointment is for one year, but is renewable annually on application for two further periods of one year. Salary £300 per annum payable by the Hospital and Medical College jointly.

Candidates must be fully qualified medically.

Applications should arrive at the Hospital not later than by the first post on Saturday, February 12th.

ARTHUR G. ELLIOTT, House Governor.

London Hospital, E.1.—Applications

are invited for the post of SURGICAL FIRST ASSISTANT AND REGISTRAR. Candidates must be Fellows of the Royal College of Surgeons. The appointment is for one year, but is renewable annually on application for two further periods of one year. Salary £300 per annum, payable by the Hospital and Medical College jointly.

Applications should arrive at the Hospital not later than by the first post on Saturday, February 12th.

ARTHUR G. ELLIOTT, House Governor.

ROYAL NAVAL MEDICAL SERVICE

Vacancies exist for MEDICAL OFFICERS in the Royal Navy, and applications are invited for entry in April, 1938.

Candidates below the age of 28 years are preferred and they must be registered under the Medical Acts. No examination in professional subjects will be held but candidates will be required to attend for interview by a Selection Board.

Selected candidates will be entered for Service for a period of three years in the first instance, which may be extended to five years at the discretion of the Admiralty.

At the end of three years' service officers may retire with a gratuity of £400, but those who serve for five years will receive £1,000.

At the end of five years' Short Service permanent commissions will be given to selected officers who wish to make the Naval Medical Service their permanent career. Officers transferred to the permanent list will receive a gratuity of £1,000 (less Income Tax).

Opportunities are available for officers on the permanent list to specialise, and ample provision is made for Post-graduate study.

Copies of the regulations for entry and conditions of Service, including rates of pay and allowances, may be obtained from the Medical Director-General of the Navy, Admiralty, S.W.1, and from the Deans of all Medical Schools.

Applications for entry from intending candidates must be received not later than 28th February, 1938.

ROYAL NAVAL DENTAL SERVICE

Vacancies exist for DENTAL OFFICERS in the Royal Navy, and applications for entry are invited from registered Dental Surgeons.

Candidates must be British subjects of pure European descent, below twenty-eight years of age on the day of entry, and physically fit for service in any part of the world. Unmarried candidates are preferred. Candidates will be required to attend at the Admiralty for physical examination and interview by a Selection Board.

Copies of the regulations for entry and conditions of service, including rates of pay and allowances, may be obtained from the Medical Director-General of the Navy, Admiralty, S.W.1, and from the Deans of Dental Schools.

The Radium Institute,

Riding House-street, London, W.1.

Applications are invited for the post of RESIDENT MEDICAL OFFICER. Candidates must be unmarried.

The salary will be at the rate of £250 per annum, board, residence, and laundry being provided, and the appointment is for six months commencing immediately.

Applications, stating age, nationality, qualifications, and experience, with copies of three recent testimonials, must be received at the Institute as soon as possible.

Canvassing, either directly or indirectly, is not permitted.

THOS. A. GARNER, Secretary.

Borough of Finchley.

MATERNITY AND CHILD WELFARE.

LADY ASSISTANT MEDICAL OFFICER—PART-TIME.

Applications are invited from duly registered Women Practitioners for the above appointment.

Candidates must have had at least three years' experience in the practice of their profession, and previous experience in the conduct of an Infant Welfare Centre is essential.

The duties will entail attendance at an Infant Welfare Centre during two weekly sessions of two hours each, for which a fee of one and a half guineas per session will be paid.

The successful candidate will be required to take up her duties on the 1st April, 1938.

Applications, together with copies of three recent testimonials, should be received by the Medical Officer of Health, 308, Regent's Park-road, N.3, not later than first post on Saturday, 12th February, 1938. H. WOOD BARTER, Town Clerk.

Municipal Offices, Finchley, N.3, 28th January, 1938.

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THE ARMY DENTAL CORPS

Applications are invited from dental surgeons for appointment to a limited number of commissions in The Army Dental Corps.

Candidates, who should not be over twenty-eight years of age, will for the present be selected for commissions without competitive examination, but will be required to present themselves in London for interview and physical examination. They must hold the degree or diploma of a British University or College of Surgeons, and be registered under the Dentists Acts or Medical Acts.

Successful candidates will, in the first instance, be given short service commissions for six years, at the end of which period they will retire with a gratuity of £1000, unless they have been granted permanent commissions. Permanent commissions will be given to officers selected from among those who wish to make the Army their permanent career.

Particulars, including Regulations for Admission, pay and allowances, and forms of application may be obtained on request either in writing or in person to the DIRECTOR, Army Dental Service, The War Office, London, S.W.1.

Royal Northern Hospital,

Holloway, N.7.

Applications are invited for the following appointments:—

HOUSE PHYSICIAN, vacant 1st March. The appointment as for nine months (three months as Out-patient Medical Officer and Anæsthetist, and six months as House Physician). Salary it the rate of £70 per annum, with board, residence, and laundry.

OBSTETRIC HOUSE SURGEON, vacant 15th March. The appointment is for nine months (six months as Obstetric House Surgeon and three months as Casualty Officer). Salary at the rate of £70 per annum, with board, residence, and laundry.

Applications, with copies of testimonials, should be sent by February 4th to the undersigned, from whom forms of application and rules can be obtained.

GILBERT G. PANTER, Secretary.

East Ham Memorial Hospital,

Shrewsbury-road, E.7. (100 Beds.)

Applications are invited for the post of HOUSE PHYSICIAN (Male). The appointment is for six months commencing 1st March. Salary at the rate of £150 per annum, with board, residence, and laundry.

Applications, stating age, nationality, experience, and full particulars, together with copies of three testimonials, should reach the undersigned by 10th February.

St. Bartholomew's Hospital.

WHOLE-TIME CHIEF ASSISTANT IN THE X RAY DIAGNOSTIC DEPARTMENT.

Applications are invited for the post of Whole-time Chief Assistant in the X Ray Diagnostic Department of the above Hospital.

The salary will be at the rate of from £400 to £500 per annum, and appointment will be made as from the 1st March, 1938.

Candidates, who must possess a Diploma in Medical Radiology, should send in their applications to the undersigned not later than Saturday, 19th February, 1938.

C. C. CARUS-WILSON, Acting Clerk to the Governors.

22nd January, 1938.

County Borough of Croydon.

PUBLIC HEALTH DEPARTMENT.

APPOINTMENT OF ASSISTANT MEDICAL OFFICER FOR OBSTETRICS.

Applications are invited from qualified Medical Men and Women for the post of Assistant Medical Officer for Obstetrics. Candidates must have had practical hospital experience in Gynæcology and Obstetrics, and of Ante-natal and Post-natal Clinics.

The appointment will be for twelve months and the salary will be £350 per annum, with board, residence, and laundry valued at £140 per annum. The successful candidate will have quarters at St. Mary's Hospital, St. James-road, Croydon.

Opportunities will be given for the successful candidate to study for the Membership of the College of Obstetricians and Gynæcologists.

The officer appointed will be on the staff of the Medical Officer of Health, and work under his administrative supervision.

Application forms may be obtained from the Medical Officer of Health, Town Hall, Croydon, on receipt of a stamped addressed foolscap envelope, and should be returned to him not later than 11 A.M. on Monday, 7th February, 1938, together with copies of three testimonials of recent date.

Canvassing in any form is prohibited.

E. TABERNER, Town Clerk.

Town Hall, Croydon, 24th January, 1938.

Queen Charlotte's Maternity Hospital,

Marylebone-road, N.W.1.

RESIDENT MEDICAL OFFICER (Male or Female) required for the ISOLATION HOSPITAL (for Puerperal Fever) at Ravenscourt-square, Hammersmith, W.6, to commence duty on the 1st April, 1938.

Appointment for six months, renewable for a further period of six months. The salary is at the rate of £200 per annum, with board, residence, and laundry allowance.

Applications, with copies of testimonials, should be sent to the Secretary by the 19th February, 1938.

Queen Charlotte's Maternity Hospital,

Marylebone-road, N.W.1.

Applications are invited from registered Medical Practitioners for the following appointments :—

ASSISTANT RESIDENT MEDICAL OFFICER (Male). Salary £80 per annum.

RESIDENT ANÆSTHETIST AND DISTRICT RESIDENT MEDICAL OFFICER, six months. Salary £90 per annum.

RESIDENT ANÆSTHETIST, three months. Salary £100 per annum.

With board, residence, and laundry allowance (4s. weekly). Appointments to commence on the 1st April, 1938.

The Assistant Resident Medical Officer is appointed for three months, and on completion will be expected to proceed to the post of Senior Resident Medical Staff (salary £100 per annum). Obstetric experience desirable.

Applications, stating age, and with copies of three testimonials, should be sent to the Secretary by the 19th February, 1938. H. B. STOKES, Secretary-Superintendent.

West London Hospital,

Hammersmith, W.6. (239 Beds.)

Applications are invited for the post of MEDICAL REGISTRAR to the Children's Department for a period of one year, eligible for re-election annually for a total period of not more than three years. An honorarium at the rate of £100 a year is attached to the post.

The duties include attendance in the Out-patient Department on four mornings a week, acting as deputy for the Physician to the Children's Department when required, and such teaching for the West London Hospital Medical School as the Board may approve.

Candidates, who may be Male of Female, must be registered under the Medical Act, and should have had wide experience in Children's work.

Applications, with copies only of testimonials, should reach me not later than Thursday, 17th February. Candidates must attend the Meeting of the Medical Council at 4.30 P.M. on Friday, 18th February, and prior to that date call upon and send copies of their application and testimonials to each member thereof. They must not canvass members of the Board, but nevertheless, should send copies of their application and testimonials to each member thereof and, if so notified, be in attendance at a Meeting of the Board at 5 P.M. on Tuesday, 22nd February, when the election will be made.

H. A. MADGE, Secretary.

King's College Hospital Medical School,

Denmark Hill, S.E.5.

ADVANCED MEDICINE COURSE.

A Course in Clinical Medicine, Pathology, Morbid Histology, and Bio-Chemistry suitable for M.D. and M.R.C.P. examinations will be given for seven weeks commencing on February 16th.

The Class is limited in number. The next Course will be held from May to July.

Guy's Hospital Medical School.

FINAL FELLOWSHIP COURSE.

The next Course of Instruction in preparation for the Final Examination for the Fellowship of the Royal College of Surgeons of England will commence on Monday, February 21st.

Intending applicants for admission to the Course should communicate with the Dean, Guy's Hospital Medical School, London Bridge, S.E.1.

St. John's Hospital,

Lewisham, S.E.13.

Applications are invited for the resident posts of HOUSE PHYSICIAN AND CASUALTY OFFICER (Males), tenable for six months from March 1st, 1938. Salary £100 per annum.

Applications, with copies of testimonials, should reach the undersigned by February 8th.

J. C. GILBERT, Secretary-Superintendent.

St. John's Hospital,

Lewisham, S.E.13.

Applications are invited for the post of MEDICAL REGISTRAR (Male) to attend the Out-patient Department on two half-days a week, namely, Monday afternoon and Thursday morning. Honorarium fifty guineas per annum.

Applications, with copies of testimonials, should reach the undersigned, who will be pleased to give further information, by February 8th. J. C. GILBERT, Secretary-Superintendent.

Borough of Ealing.

ASSISTANT MEDICAL OFFICER OF HEALTH.

Applications are invited from duly qualified Medical Men with a Public Health qualification for the position of Assistant Medical Officer of Health.

A candidate must have had at least three years' experience in the practice of his profession. The person appointed will be required to carry out medical inspection of school-children and child welfare work and perform such other duties as may be allotted as Assistant to the Medical Officer of Health and School Medical Officer.

He will be required to devote his whole time to the duties, and will not be allowed to engage in private practice. The salary will be at the rate of £600 per annum, rising by £25 per annum to £700.

A deduction of 5 per cent. will be made from the salary in accordance with the provisions of the Local Government and Other Officers' Superannuation Act, 1922, which has been adopted by the Council, and the appointment will be subject to passing the Council's medical examination in connexion therewith. Canvassing will be a disqualification.

Copies of the application forms and terms of appointment can be obtained from Dr. Thomas Orr, Medical Officer of Health, Town Hall, Ealing, W.5, to whom application, accompanied by copies of not more than three recent testimonials, must be delivered not later than the 10th February.

R. H. WANKLYN, Town Clerk.

Town Hall, Ealing, W.5.

Borough of Ealing.

RESIDENT ASSISTANT MEDICAL OFFICER.

Applications are invited from duly qualified Medical Men (single) with a Public Health qualification for the position of Resident Assistant Medical Officer.

A candidate must have had experience in the treatment of cases of infectious disease at an Isolation Hospital. The duties will include the medical care of patients in the Chiswick and Ealing Isolation Hospital, South Ealing, and the medical inspection and treatment of school-children at schools and health centres in the borough of Ealing.

The person appointed will reside at the Isolation Hospital where furnished rooms and board will be provided.

He will be required to devote his whole time to the duties and will not be allowed to engage in private practice. The salary will be at the rate of £350 per annum, rising by £25 per annum to a maximum of £550, plus board and residence, as indicated above and valued at £150 per annum.

A deduction of 5 per cent. will be made from the salary in accordance with the provisions of the Local Government and Other Officers' Superannuation Act, 1922, which has been adopted by the Council, and the appointment will be subject to passing the Council's medical examination in connexion therewith. Canvassing will be a disqualification.

Copies of the application forms and terms of appointment can be obtained from Dr. Thomas Orr, Medical Officer of Health, Town Hall, Ealing, W.5, to whom application, accompanied by copies of not more than three recent testimonials, must be delivered not later than the 10th February.

R. H. WANKLYN, Town Clerk.

Town Hall, Ealing, W.5.

London County Council.

Applications invited from Medical Practitioners of at least one year's standing to undermentioned positions. Experience in a resident appointment in a general hospital for at least six months desirable. Married quarters not available.

ASSISTANT MEDICAL OFFICER (Grade I).—Salary £350–£25–£425, with board, lodging, and washing.

(*a*) GROVE PARK HOSPITAL, Lee, S.E.12.

ASSISTANT MEDICAL OFFICER (Grade II).—Salary £250 a year, together with board, lodging, and washing. Appointment for one year only in first instance (renewable for a second year under certain conditions).

(*b*) KING GEORGE V. SANATORIUM, Godalming, Surrey.

Experience in the treatment of pulmonary tuberculosis essential for (*a*) and desirable for (*b*).

Application forms obtainable (stamped addressed foolscap envelope necessary) from Medical Officer of Health, Staff Division, 2B, County Hall, S.E.1, returnable by 7th February.

Canvassing disqualifies.

London County Council.

PUBLIC HEALTH DEPARTMENT.

Applications are invited for a full-time position of ASSISTANT MEDICAL OFFICER (Permanent and Pensionable). The duties will be chiefly concerned with slum clearance and school medical work. Applicants must hold a diploma or degree in Public Health. Salary £750 a year.

Forms of application (stamped addressed foolscap envelope necessary) from the Medical Officer of Health (S.D.5), The County Hall, Westminster Bridge, London, S.E.1, returnable by 12th February. Canvassing disqualifies.

London County Council.

Applications invited from Medical Practitioners of at least one year's standing to undermentioned positions. Candidates must have held resident appointment in a general hospital for at least six months. Married quarters not available.

ASSISTANT MEDICAL OFFICER (Grade I).—Salary £350–£25–£425, with board, lodging and washing.

(*a*) LAMBETH HOSPITAL, Brook-drive, Kennington-road, S.E.11.—Surgical experience, to work in radiotherapeutic department.

ASSISTANT MEDICAL OFFICERS (Grade II).—Salary £250 a year, together with board, lodging and washing. Appointment for one year only in first instance (renewable for a second year under certain conditions).

(*b*) HAMMERSMITH HOSPITAL, Ducane-road, Shepherd's Bush, W.12.—General medical duties, experience in children's diseases desirable.

(*c*) MILE END HOSPITAL, Bancroft-road, Mile End, E.1.—Experience in obstetrics and anæsthetics essential.

* (*d*) NEW END HOSPITAL, Hampstead, N.W.3.—Duties mainly medical, experience in anæsthetics essential and in obstetrics desirable.

(*e*) PADDINGTON HOSPITAL, Harrow-road, W.9.—Medical duties experience in anæsthetics desirable.

(*f*) ST. ANDREW'S HOSPITAL, Devons-road, Bow, E.3.—(Two positions.) (1) Surgical duties. (2) Anæsthetics, experience in children's diseases desirable.

(*g*) ST. GILES' HOSPITAL, St. Giles'-road, Camberwell, S.E.5.—Duties mainly medical, experience in anæsthetics desirable.

(*h*) ST. JAMES' HOSPITAL, Ouseley-road, Balham, S.W.12.—Surgical duties.

* No accommodation for a woman.

Application forms obtainable (stamped addressed foolscap envelope necessary from Medical Officer of Health, Staff Division 2B, County Hall, S.E.1, returnable by 16th February.

Canvassing disqualifies.

The Hospital for Sick Children,

Great Ormond-street, London, W.C.1.

A RESIDENT AURAL REGISTRAR is required, duties to commence not later than the 1st April, 1938.

Gentlemen are invited to send in their applications, addressed to the Secretary, before 12 o'clock on Monday, 21st February, 1938, with copies of not more than three testimonials given specially for the purpose.

The appointment will be made for one year, but the holder may be re-elected for a further period of one year. Salary £150 per annum, laundry allowance £10, board and residence in the Hospital. The duties will be those of a house officer to the Aural In-patients, and of a registrar in assisting in the Aural Out-patient Department. Opportunity will be afforded for acquiring operative experience.

Candidates must be unmarried and possess a legal qualification to practise, and must have held a responsible resident appointment at a General Hospital.

All candidates must be in attendance to appear before the Joint Committee, if required, at their Meeting on Wednesday, 2nd March, 1938, at 4.45 P.M. precisely.

Forms of application and copies of the rules can be obtained from the undersigned. HERBERT F. RUTHERFORD, Secretary.

January, 1938.

London County Council.

Applications invited from registered Medical Practitioners of at least one year's standing, resident in the neighbourhood, for appointment as TEMPORARY VISITING MEDICAL OFFICER (Part-time) at Dunton Farm, near Laindon, Essex, for able-bodied men. Salary £150 a year.

Application forms obtainable (stamped addressed foolscap envelope necessary) from Medical Officer of Health,† Staff Division 2B, County Hall, S.E.1, returnable by 16th February. Canvassing disqualifies.

Elizabeth Garrett Anderson Hospital,

Euston-road, N.W.1.

Applications are invited from fully qualified Medical Women for the post of MEDICAL REGISTRAR, non-resident. Honorarium £100 per annum. Duties to commence 1st April, 1938.

Particulars of the post can be obtained from the undersigned, to whom applications, with testimonials (copies of three), should be sent before 25th February, 1938.

24th January, 1938. JEAN R. MURRAY, Secretary.

Rural District of Pontardawe.

APPOINTMENT OF MEDICAL OFFICER OF HEALTH (Male).

Applications are invited from duly qualified and registered Medical Practitioners who are also registered in the Medical Register as the holder of a Diploma in Sanitary Science, Public Health or State Medicine, for the post of Medical Officer of Health for the Rural District of Pontardawe. The appointment is subject to the provisions of the Local Government Act, 1933, the Sanitary Officers' (Outside London) Regulations, 1935, and the Local Government and Other Officers' Superannuation Act, 1922.

The person appointed will be required to perform all the duties imposed on a Medical Officer of Health under relevant Acts and Orders, to undertake administration of the Maternity and Child Welfare Service, to act as Chief Medical Adviser to the Local Authority, and will also be required to carry out such other duties as the Council may, with the consent of the Ministry of Health (where necessary), from time to time direct.

The person appointed must reside within the Rural District, must not engage in private practice, and must devote his whole time to the duties of the office.

The successful candidate will be required to furnish a satisfactory medical certificate in the form prescribed by the Council.

The salary will be at the rate of £800 per annum, plus £100 per annum as travelling allowance.

Clerical assistance and office accommodation will be provided by the Council.

Applications on the prescribed form, accompanied by not more than three recent testimonials, and endorsed "Appointment of Medical Officer of Health," must be delivered to the undersigned on or before the 15th day of February, 1938.

NEVILLE S. DAVIES, Clerk.

Council Offices, Pontardawe, 25th January, 1938.

Liverpool and District Hospital for

DISEASES OF THE HEART, Oxford-street.

HOUSE PHYSICIAN required April 1st for six months. Salary at rate of £100 per annum, with board, residence, laundry. Applications to Secretary.

Vacancy. — Resident Physician at

Ruthin Castle, North Wales. Must have held House Office. Salary £200 per annum, with board and lodging. Quarters provided in or near the Castle. Appointment may be renewed at the end of six months.

Apply, stating age, experience, and giving personal references, to SECRETARY, Ruthin Castle, North Wales.

Surrey County Council.

MENTAL HOSPITALS COMMITTEE.

APPOINTMENT OF JUNIOR ASSISTANT MEDICAL OFFICER (MALE).

Applications are invited for the post of Male Junior Assistant Medical Officer (unmarried) in the Surrey County Council Mental Hospital Service.

Commencing salary, which will be subject to statutory deductions under the provisions of the Asylums Officers' Superannuation Act, 1909, will be £350, rising by annual increments of £25 to a maximum of £450 per annum, together with apartments, board, laundry, and attendance, valued for superannuation purposes at £150 per annum. The person appointed will also be paid, in addition to his salary, the sum of £50 per annum if he holds the Diploma in Psychological Medicine.

The appointment will be subject to termination by one calendar month's notice on either side, and the person appointed will be required to undergo a medical examination.

Applications, stating age, accompanied by copies of three recent testimonials, and enclosed in an envelope endorsed "Mental Hospitals Junior Medical Officer," must reach me not later than Saturday, 12th February, 1938.

DUDLEY AUKLAND, Clerk of the Council.

Mental Hospitals Department, County Hall,
Kingston-upon-Thames, 24th January, 1938.

ROYAL AIR FORCE MEDICAL SERVICE

Applications are invited from Medical Men for appointment to COMMISSIONS in the MEDICAL BRANCH of the ROYAL AIR FORCE for entry in May, 1938.

Candidates must be of pure European descent. They must be British Subjects, the sons of British Subjects and registered under the Medical Acts.

Candidates must normally be under 28 *years of age*, but as a temporary measure consideration will be given to candidates up to 31 years of age and will be selected after interview by a selection board without competitive examination.

Hospital appointments held since qualifying will, under certain conditions, qualify candidates for antedate of commission up to a maximum of one year; the age on entry may, if necessary, be increased by a period equal to the "antedate."

Selected candidates will be appointed to short service commissions (for 3 years extendible to 5 years) followed by 4 years' service in the Reserve, and will be eligible to be considered for Permanent Commissions after having completed their first year of service and during the whole period of their service on the active list. Officers selected for Permanent Commissions will be allowed to count their service on a short service commission towards retired pay or gratuity to permanent officers. Officers not selected for Permanent Commissions receive gratuity as follows, on transferring to the Reserve:—

On completion of 3 years	£400
,, ,, 5 ,, ...	£1,000

Copies of the regulations for entry and conditions of service, including rates of pay and allowances, also form of application, may be obtained on application from: The Secretary, Air Ministry (D.M.S.), Adastral House, Kingsway, W.C.2.

Completed applications from intending candidates for the vacancies in May, 1938, must be received in the Air Ministry not later than the 15th March, 1938.

IRAQ GOVERNMENT

APPOINTMENT OF BRITISH SURGICAL SPECIALISTS

The Iraq Government invite applications from British Medical and Surgical Specialists (Male) for the following vacant appointments:—

1. OBSTETRICIAN AND GYNÆCOLOGIST

Duties: To be Professor of Obstetrics and Gynæcology in the Royal College of Medicine, Bagdad, and Chief of the Unit of Obstetrics and Gynæcology in the Royal Hospital, Bagdad.

Salary: Iraq Dinars 150 per mensem.

2. EAR, NOSE AND THROAT SPECIALIST

Duties: To be Lecturer on Ear, Nose, and Throat diseases in the Royal College of Medicine, Bagdad, and Chief of one of the Units for these diseases at the Royal Hospital, Bagdad.

Salary: Iraq Dinars 120 per mensem. In special circumstances if it is considered that the candidate's qualifications and experience justify it a salary in excess of this amount, but not exceeding 150 Dinars per mensem, may be granted.

3. GENERAL SURGICAL SPECIALIST

Duties: To act as Surgical Specialist in any hospital of the Iraq Health Service as required, and to assist in the teaching of Surgery in the Royal College of Medicine, Bagdad, if required.

Salary: Iraq Dinars 120 per mensem.

Candidates must be experienced in operative work and must hold a Specialist's Diploma in their branch of work, such as F.R.C.S., M.C.O.G., or D.L.O.

Age must not exceed forty-five years. Successful candidates will be required to enter into contracts for a period of five years. Consultant practice is allowed provided that it does not interfere with the performance of official duties. The teaching at the Medical College is in the English language.

One Iraq Dinar is equivalent to One Pound Sterling. Salaries will be subject to Iraq Income Tax which is:—150 Dinars exempt, the next 150 Dinars subject to 6 per cent. tax and the remainder of the income 9 per cent.

Forms of application and copies of the form of Contract can be obtained from the IRAQ MINISTER, THE ROYAL IRAQ LEGATION, 22, QUEEN'S GATE, LONDON, S.W.7. Particulars as to the Provident Fund, leave, and passage allowances are given in the Form of Contract.

No application can be considered unless received *on the prescribed form* not later than February 18th.

Hull Royal Infirmary.
(365 Beds.)

Applications are invited from registered Medical Practitioners for the post of HOUSE SURGEON (Male) to the Ophthalmic and Ear, Nose, and Throat Departments, vacant February 12th.

Salary at the rate of £150 per annum, plus residence, board, and laundry.

The post is recognised for the clinical work required in the regulations for the D.O.M.S. and D.L.O.

The appointment will be for a period of six months, but will be determinable at any time by one month's notice on either side.

Applications, giving particulars of age, experience, and nationality, together with copies of recent testimonials, should be addressed to the undersigned.

17th January, 1938. R. J. CARLESS, House Governor.

Lord Mayor Treloar Cripples' Hospital,
ALTON, HANTS. (410 Beds.)

A THIRD RESIDENT MEDICAL OFFICER is required on February 1st. Male, unmarried. Previous resident appointment an advantage. Salary at the rate of £150 for the first six months. £200 if reappointed after the first six months, with board, lodging, and laundry.

Apply, with copies of three testimonials, to the Medical Superintendent, Lord Mayor Treloar Cripples' Hospital, Alton, Hants.

The Prince of Wales's Hospital,
Lockyer-street, PLYMOUTH.
(Formerly Central Hospital, Lockyer-street, Plymouth.)
(50 Beds.)

Applications are invited for the post of HOUSE SURGEON. Salary £150 per annum, with board, residence, and laundry. Duties to commence 19th February.

Appointment is tenable for seven months and is subject to renewal.

Applications, stating age and qualifications, with copies of three recent testimonials, to reach the undersigned by 4th February. ARTHUR R. CASH, Gen. Supt. and Secretary.

Prince of Wales's Hospital, Greenbank-road, Plymouth.

The Prince of Wales's Hospital,
Greenbank-road, PLYMOUTH.
(Formerly South Devon and East Cornwall Hospital.)
(264 Beds.)

Applications are invited for the post of HOUSE SURGEON. Salary £120 per annum, with board, residence, and laundry.

Appointment is tenable for seven months and is subject to renewal. Duties to commence 19th February.

The Hospital is officially recognised for the Surgical practice required before admission to the Final Fellowship Examination of the Royal College of Surgeons of England.

Applicants must be registered under the Medical Acts.

Applications, stating age and qualifications, with copies of three recent testimonials, to reach the undersigned by 4th February. ARTHUR R. CASH, Gen. Supt. and Secretary.

Royal Surrey County Hospital,
GUILDFORD. (216 Beds.)

Applications are invited for the posts of

(*a*) One HONORARY SURGEON AND GYNÆCOLOGIST

(*b*) One HONORARY SURGEON.

Applicants must hold the degree of Master of Surgery or the Fellowship of one of the Royal Colleges of Surgeons, and they should state whether they are in consultant or general practice.

Duties to commence on the 1st April, if possible.

Applications, with copies of not more than three recent testimonials, should reach the Secretary-Superintendent not later than 28th February, 1938.

Leicester Royal Infirmary.

PART-TIME VENEREAL DISEASES OFFICER (Female).

Applications are invited for the position of Senior Medical Officer (Woman) in charge of Women's V.D. Clinics under general administrative control of the Director of Venereal Diseases Service.

Salary £350 per annum.

The appointment is for a Part-time Medical Officer who will be allowed to engage in private, but not panel, practice. It is understood that an additional part-time appointment valued at £150 per annum will be offered to the successful candidate.

Applicants must be qualified in accordance with the new regulations of the Ministry of Health.

Full details on application to the Secretary.

17th January, 1938.

University of Wales.

THE WELSH NATIONAL SCHOOL OF MEDICINE.

Applications are invited for the DAVID DAVIES PROFESSORSHIP OF TUBERCULOSIS. The person appointed will also hold office as Director of Research and Honorary Consultant to the Welsh National Memorial Association. The appointment is a full-time one, and the combined emoluments are at the rate of £1500 per annum.

Further particulars of the appointment may be obtained from the Secretary, The Welsh National School of Medicine, The Parade, Cardiff. S. C. EDWARDS, Secretary.

West Kent General Hospital
(Incorporated),
MAIDSTONE. (136 Beds.)

Applications are invited for the post of HOUSE PHYSICIAN, who must be a Male of British nationality, and unmarried.

He will have charge of thirty Medical Beds and sixteen Maternity Beds. Experience in midwifery is essential.

Salary at the rate of £175 per annum, with board, apartments, and laundry.

Candidates must possess registered qualifications.

Applications, stating qualifications and experience, together with copies of testimonials, should be sent to the undersigned on or before 3rd February, 1938.

The successful candidate will be required to take up residence on the 15th February, 1938.

EDWARD J. GREGG, House Governor and Secretary.

University of Aberdeen.

LECTURESHIP IN BACTERIOLOGY.

The University Court will shortly proceed to the appointment of a Lecturer in Bacteriology in the University of Aberdeen.

The salary proposed is £500 to £600, according to qualifications and experience.

Persons desirous of being considered for the office are requested to lodge their names with the Secretary to the University on or before 18th February, 1938.

The conditions of appointment and form of application may be obtained from the undersigned.

H. J. BUTCHART,
Secretary to the University of Aberdeen.

The University, Aberdeen.

St. Albans and Mid Herts Hospital.

Applications are invited for the posts of CONSULTING PHYSICIAN and CONSULTING SURGEON at the above Hospital. Those appointed would be expected to attend at regular intervals and on special request.

Applications are also invited for the posts of NEUROLOGIST and ORTHOPÆDIC SURGEON to the Hospital. Those appointed would be expected to attend on special request only.

Applications should be received by January 31st.

For further details apply to the Secretary of the Hospital.

Cardiff City Mental Hospital,
WHITCHURCH, GLAM.

HOUSE PHYSICIAN (Male), age not exceeding 30 years, required for above Hospital (790 Beds). Salary £200 per annum, with apartments, board, attendance, and laundry. Six-monthly appointment, renewable for a further six months. The Hospital provides facilities for all modern psychiatric treatment, is equipped with Research Laboratories (biochemical and pathological) under a whole-time Director of Research, conducts out-patient clinics, and is associated with the Welsh National School of Medicine for the teaching of Psychological Medicine.

Applications, together with copies of three recent testimonials, to be forwarded to the Medical Superintendent.

County Borough of Rochdale.

PUBLIC HEALTH DEPARTMENT.

The Health Committee invite applications from fully qualified registered Medical Practitioners (unmarried) for the appointment of JUNIOR RESIDENT MEDICAL OFFICER (Male) at the BIRCH HILL HOSPITAL (475 Beds—Medical, Surgical, Children, and Maternity).

The appointment includes certain services at the adjoining Public Assistance Institution, and will be for a period of six months in the first instance, and for a further period of six months at the option of the Town Council, but will not be renewable thereafter.

Salary at the rate of £225 per annum, together with board, residence, and laundry.

Applications must be made on the prescribed form, which may be obtained on application to the Medical Officer of Health, and returned addressed to him at the Public Health Offices, Baillie-street, Rochdale, not later than Monday, 7th February, 1938. HARRY BANN, Town Clerk.

Town Hall, Rochdale, 15th January, 1938.

Lancashire County Council.

JUNIOR ASSISTANT MEDICAL OFFICER, WRIGHTINGTON HOSPITAL, APPLEY BRIDGE.

Applications are invited for the post of Junior Assistant Medical Officer (Male, unmarried) for the Wrightington Hospital, which contains 206 Beds for non-pulmonary tuberculosis (adults and children) and 20 Beds for "combined" pulmonary and non-pulmonary cases. Salary £300 per annum, together with board, residence, and laundry.

The appointment will for be six months or for twelve months as may be agreed upon.

The medical staff consists of medical superintendent, two assistants, two consultant orthopædic surgeons, and other visiting surgeons. There are excellent facilities for reading for M.D.

Forms of application and conditions of appointment obtainable from Central Tuberculosis Officer, County Offices, Preston. Letters to be marked "Wrightington M.O."

Closing date 17th February, 1938.

GEORGE ETHERTON, Clerk of the County Council.

County Offices, Preston.

Huddersfield Royal Infirmary.
(321 Beds.)

Male CASUALTY OFFICER required to commence duty on March 4th, 1938.

Salary £200 per annum, with board, residence, and laundry. Appointment for six months. Prospect according to qualifications, experience, and satisfactory service.

The Hospital is officially recognised for the Surgical Practice required of non-members before admission to the Final Fellowship Examination of the Royal College of Surgeons of England.

The post of Casualty Officer is next in seniority to that of Resident Surgical Officer.

Applications, with copies of three recent testimonials, to be addressed to the undersigned immediately.

H. J. JOHNSON, Gen. Supt. and Secretary.

Chesterfield and North Derbyshire
ROYAL HOSPITAL.
(220 Surgical and Medical Beds.)

CASUALTY OFFICER AND FRACTURE HOUSE SURGEON.

Applications are invited from fully qualified Men for the above post, to commence 1st March, 1938.

The appointment is for six months. Salary at the rate of £200 per annum, with board, apartments, and laundry.

The duties include the post of House Surgeon to the Director of the Fracture Clinic, under whose care the whole of the fractures, both in- and out-patients, are treated.

Candidates for this post should have had special fracture experience.

Applications, stating age, together with copies of three recent testimonials, should be sent to the undersigned as early as possible. M. BOONE, Superintendent and Secretary.

20th January, 1938.

The Duchess of York Hospital for
BABIES, MANCHESTER, 19.
(80 Cots.)

Applications are invited for the post of SENIOR RESIDENT MEDICAL OFFICER. Appointment is for six months from 1st April, 1938. Salary £125 per annum, with board, residence, and laundry. Previous experience essential.

Also JUNIOR RESIDENT MEDICAL OFFICER for six months from 1st April, 1938. Salary £75 per annum, with board, residence, and laundry.

Applications, with copies of testimonials, to be sent to the Secretary by the 14th February, 1938.

LOUISE BAILEY, Secretary.

Leicestershire and Rutland Mental
HOSPITAL, NARBOROUGH, Near LEICESTER.

DEPUTY MEDICAL SUPERINTENDENT.

Applications for this appointment are requested from married gentlemen fully qualified, whose age does not exceed thirty-five years, who have had previous mental hospital experience, and are in possession of the Diploma in Psychological Medicine.

The salary will be £750 per annum, rising by annual increments of £25 to a maximum of £850 per annum. There are no emoluments.

An unfurnished house on the Estate is provided at an annual rental of £50 a year, which includes rates and taxes.

Applications (forms for which may be obtained from the Hospital on request), together with copies of three recent testimonials, should be sent to the Medical Superintendent forthwith.

Royal Liverpool Babies' Hospital,
WOOLTON.

Required, RESIDENT MEDICAL OFFICER for the above Hospital. Appointment commencing April 1st. Salary at the rate of £125 per annum for the first six months; £150 per annum for the second six months.

Applications, with copies of testimonials, to be sent to the Honorary Secretary of the Medical Board, 9, Copperas Hill, Liverpool, 3, on or before February 14th.

Ancoats Hospital, Manchester.

CASUALTY OFFICER (Lady or Gentleman), twelve months' appointment. Applicants who have passed the Primary Fellowship Examination of one of the Royal Colleges of Surgeons will be preferred. Salary £150 per annum, with board, apartments, washing, &c. The successful applicant will do duty for the Resident Surgical Officer at alternate week-ends and other scheduled times.

HOUSE SURGEON required (Lady or Gentleman) for the Ear, Nose, and Throat Department, and to act as House Physician to one of the Honorary Physicians. Appointment for six months from the 1st March. Salary £100 per annum, with board, apartments, washing, &c.

HOUSE SURGEON required (Lady or Gentleman) for the Orthopædic Department. Appointment for six months from 1st March. Salary £100 per annum, with board, apartments, washing, &c.

Applications for the above posts, stating age, qualifications, experience, if any, and full particulars, to be forwarded to the undersigned on or before Wednesday, 9th February, together with copies of three recent testimonials.

By order of the Board.

HERBERT J. DAFFORNE, Gen. Supt. and Secretary.

Liverpool Stanley Hospital,
Stanley-road, LIVERPOOL, 5.

There will be vacancies on April 1st next for One HOUSE SURGEON (Male) and One GYNÆCOLOGICAL HOUSE SURGEON (Female). The appointment will be for a period of six months. Salary at the rate of £100 per annum, with board, laundry, &c.

Candidates must be on the Medical Register, and send their applications, with copies of three recent testimonials, addressed to the undersigned by 12th February.

L. RICHMOND, Superintendent.

County Borough of Wolverhampton.

NEW CROSS HOSPITAL.
(350 Beds.)

ASSISTANT MEDICAL OFFICER (RESIDENT).

Applications are invited from single Gentlemen, duly qualified, for appointment as Assistant Medical Officer at the above Hospital, which contains Medical, Surgical, Maternity, Children's, and Isolation Departments, and is modernly equipped.

Experience in Anæsthetics, a knowledge of Clinical Pathology, and previous Hospital experience will be deemed additional assets.

Salary will be at the rate of £200 per annum, with apartments, board, attendance, &c.

The appointment will be limited to a term not exceeding one year.

Further information as to the duties, &c., may be obtained from the Medical Officer of the Hospital.

Applications, stating age, qualifications, and nationality, together with copies of recent testimonials, should be addressed to:— A. G. ALDRIDGE, Public Assistance Officer.

Stafford-street, Wolverhampton.

Dewsbury and District General
INFIRMARY, DEWSBURY.

The Senior Post is recognised by the Royal College of Surgeons (England).

Applications are invited for the post of SENIOR HOUSE SURGEON (Male). Salary £200 per annum, with board, residence, and laundry.

Also for the post of SECOND HOUSE SURGEON (Male). Salary £150 per annum with similar emoluments. The duties are principally those of a House Physician and Casualty Officer.

The Infirmary is a new Voluntary Hospital of 100 Beds, and has the usual Special Departments, with Visiting Consulting Specialists in attendance.

Applications, stating for which post, age, and hospital experience, together with copies of recent testimonials, to be sent as immediately as possible to my Office.

FRED SMITH, Secretary-Superintendent.

University of Cambridge.

ELMORE MEDICAL RESEARCH STUDENTSHIP.

The Board of Management of the Frank Edward Elmore Fund will shortly proceed to the award of a Studentship for research in medicine. The Studentships are open to Male Graduates of any University who were born in any country within the British Empire other than Scotland. The student appointed will work in the Department of Medicine in the University of Cambridge, under the direction of the Regius Professor of Physic. The commencing salary will be £300 a year, and the appointment will be for two years in the first instance.

Further information may be obtained from the Regius Professor of Physic, Department of Medicine, University of Cambridge, to whom applications, together with three testimonials, a statement of previous appointments, and copies of published papers, should be sent not later than 28th February, 1938.

21st January, 1938.

City of Sheffield.

LODGE MOOR INFECTIOUS DISEASES HOSPITAL.

JUNIOR ASSISTANT MEDICAL OFFICER (MALE).

Applications are invited from duly qualified registered Medical Practitioners for the above appointment, for a period of one year, at a salary of £300 per annum, together with board, residence, and laundry.

Applications, stating age, qualifications, and previous experience, with copies of recent testimonials, to be sent at once, stating when at liberty, to the Medical Superintendent, Lodge Moor Hospital, Sheffield, 10.

The Victoria Infirmary of Glasgow.

The Governors invite applications for the post of JUNIOR ASSISTANT PHYSICIAN whose duties include those of Clinical Tutor. There are two such vacancies, and further particulars may be obtained from the Medical Superintendent at the Infirmary. Honorarium £150 per annum. Fifteen copies of application and testimonials to be sent to the undersigned not later than Wednesday, 9th February.

JOHN W. ROBSON, Secretary and Treasurer.

40, St. Vincent-place, Glasgow, 25th January, 1938.

City and County of Bristol.

ASSISTANT MEDICAL OFFICER OF HEALTH.

The Council invite applications for a Whole-time ASSISTANT MEDICAL OFFICER OF HEALTH. Age not exceeding forty years. Salary £500 per annum, rising by annual increments of £50 to £700. The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922.

The duties will consist mainly of giving Anæsthetics for Dental Surgeons, but he may also be required to work in any of the Corporation's Institutions, or to carry out any other work under the direction of the Medical Officer of Health.

Applications, which must be on the form provided for this purpose, should be accompanied by not more than three recent testimonials, and must be received by the undersigned not later than Wednesday, 9th February, 1938. Envelopes should be endorsed "Assistant Medical Officer of Health."

Canvassing will disqualify.

JOSIAH GREEN, Town Clerk.

Council House, Bristol, 1, 21st January, 1938.

Royal Victoria Hospital, Folkestone.

(Extending to 155 Beds).

The Committee of Management invite applications for the appointment of HONORARY ASSISTANT SURGEON. Candidates must be:—

(1) Fellows of the Royal College of Surgeons of England, Edinburgh, or Ireland, or
(2) Masters of Surgery in one of the Universities of England, Edinburgh, Ireland, or one of His Majesty's Dominions.

Applications, stating age, qualifications, and experience, and enclosing copies of three recent testimonials, to be forwarded to the undersigned, arriving not later than the first post on the 8th February, 1938. F. T. WILTON, Secretary-Superintendent.

25th January, 1938.

Derbyshire Royal Infirmary, Derby.

(General Hospital. 362 Beds.)

Applications are invited for the following posts:—
HOUSE SURGEON for Gynæcological Department.
HOUSE SURGEON for Ear, Throat, and Nose Department.
HOUSE SURGEON for Casualty Department.
(Male, single.)

Candidates must be qualified and registered under the Medical Acts.

Salary will be £150 per annum, with apartments, board, &c.

Applications, with copies of testimonials, to be sent to the undersigned. ARTHUR TAYLOR, Superintendent and Secretary.

County Borough of Blackburn.

LADY ASSISTANT MEDICAL OFFICER OF HEALTH AND ASSISTANT SCHOOL MEDICAL OFFICER.

Applications are invited from duly registered Women Practitioners for the appointment of Assistant Medical Officer of Health and Assistant School Medical Officer to act under the direction and supervision of the Medical Officer of Health, who is also School Medical Officer. The salary is at the rate of £600 per annum, rising by annual increments of £25 to £700 per annum.

The person appointed must have had at least three years' post-graduate experience in the practice of her profession and special experience of midwifery and ante-natal work. Special post-graduate experience in the treatment of venereal diseases and the diseases of children, and the possession of a registrable degree or diploma in Public Health, will be deemed additional qualifications.

Applications to be made on forms to be obtained from the Medical Officer of Health, Victoria-street, Blackburn, and returned to him not later than Saturday, the 12th February, 1938, endorsed "Assistant Medical Officer of Health."

Canvassing, directly or indirectly, will be a disqualification.

CHAS. S. ROBINSON, Town Clerk.

Town Hall, Blackburn, 25th January, 1938.

Gloucestershire County Council.

DEPUTY COUNTY MEDICAL OFFICER OF HEALTH.

Applications are invited for the appointment of Deputy County Medical Officer of Health (Male) at a salary of £750 per annum. Travelling and subsistence allowances will be paid in accordance with the Council's scale.

The appointment will be a designated post for the purposes of the Local Government and Other Officers' Superannuation Act, 1922, and will be subject to a satisfactory report by the Council's medical adviser.

Applicants must be registered Medical Practitioners, should hold a Diploma in Public Health, and have experience in general public health duties and in the administrative work of a Public Health Department.

Forms of application, with particulars of the duties and conditions of appointment, may be obtained from the County Medical Officer of Health, Shire Hall, Gloucester, to whom completed applications, with copies of three recent testimonials, should be sent not later than 14th February, 1938.

Canvassing, directly or indirectly, will be a disqualification.

RICHARD L. MOON, Clerk of the County Council.

Shire Hall, Gloucester.

Gloucestershire County Council.

ASSISTANT COUNTY MEDICAL OFFICER OF HEALTH.

Applications are invited for the appointment of Assistant County Medical Officer of Health (Male) at a salary of £500 per annum, rising by £25 per annum to £700 per annum. Travelling and subsistence allowances will be paid in accordance with the Council's scale.

The appointment will be a designated post for the purposes of the Local Government and Other Officers' Superannuation Act, 1922, and will be subject to a satisfactory report by the Council's medical adviser.

Applicants must be registered Medical Practitioners, should hold a Diploma in Public Health. Previous experience in various branches of public health and school medical work is desirable.

Forms of application, with particulars of the duties and conditions of appointment, may be obtained from the County Medical Officer of Health, Shire Hall, Gloucester, to whom completed applications, with copies of three recent testimonials, should be sent not later than 14th February, 1938.

Canvassing, directly or indirectly, will be a disqualification.

RICHARD L. MOON, Clerk of the County Council.

Shire Hall, Gloucester.

Administrative County of Cambridge.

DEPUTY MEDICAL OFFICER OF HEALTH.

The Cambridgeshire County Council invite applications for the post of Deputy Medical Officer of Health for the County from duly qualified Practitioners registered in the Medical Register as holders of a diploma in sanitary science, public health, or state medicine.

The officer appointed will act under the direction of the Medical Officer of Health for the County (who is also School Medical Officer) in the general administration of public health and in other medical work of the Council, including that of the Education Authority. The duties will be mainly in connexion with school medical inspection, and experience in refraction and diseases of the eye is essential.

The officer appointed must not engage in private practice or hold any other appointment.

The salary attached to the post is £600 per annum, rising by increments of £50 to £750 per annum. A car will be provided or an allowance made for travelling, but there will be no subsistence allowance within the County.

The post is subject to superannuation, and the selected candidate will be required to undergo a medical examination. The appointment will be terminable by three months' notice in writing on either side.

A form of application (with any further information desired) can be obtained from the Clerk of the County Council by sending a stamped addressed foolscap envelope.

Applications must be received not later than the 28th February, 1938. ASHLEY TABRUM, Clerk of the Council.

Shire Hall, Castle Hill, Cambridge, 25th January, 1938.

King Edward VII. Hospital, Windsor.

(200 Beds.)

RESIDENT SURGICAL OFFICER required, senior of six residents, must be a Fellow of a Royal College of Surgeons, or hold a higher degree in surgery. Salary £200 per annum.

Applications, with copies of testimonials, to be sent to the undersigned not later than February 5th, 1938.

A. E. CHURCHER, Secretary.

Royal Eye Hospital, Pevensey-road, EASTBOURNE.

NON-RESIDENT HOUSE SURGEON required to commence duty forthwith. Salary £100 per annum and allowance in lieu of board-residence £175 per annum.

Applications, stating age, qualifications, and Ophthalmic experience, together with recent testimonials, should reach the undersigned as soon as possible.

Before engagement candidates have to be interviewed by appointment by the Hon. Surgeon, from whom further particulars could be obtained in person.

H. BYGRAVE, Hon. Secretary.

The Royal Army Medical Corps ASSOCIATION, 85, Eccleston-square, S.W.1 (Telephone: Victoria 2722), supplies qualified Dispensers, Book-keepers, Laboratory Assistants, Sanitary Assistants, Male Nurses, Mental and Special Treatment Orderlies, Dental Clerk Orderlies, Porters, Caretakers, &c., without charge to respective employers

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Liverpool or Wirral.—Lady (30) desires post as Doctor's or Dental Surgeon's RECEPTIONIST-SECRETARY. Experienced, cultured, smart appearance. Knowledge electrical treatments. Appointments, filing, &c. Uniform. Available during February.—Address, No. 360, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

Young Lady Laboratory Assistant for medical research work, trained in Vienna, seeks position.—Address, No. 356, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

Wanted to Purchase.—Large Practice with large panel, London or near London.—Address, Box No. 355, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

Sheffield. — Old-established and increasing PRACTICE. Average last three years £1740. Last year £1800. Panel 1700. Convenient house to rent.—Sole agents, BECKTON'S MEDICAL AGENCY, Exeter and London.

London, S.W.—Owing to vendor's ill-health, Panel and Private PRACTICE in well-populated district. Last year's receipts over £800, capable of considerable increase. Very comfortable house, low rental.—Address, No. 359, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

Partner wanted, not under 30, M.R.C.P. preferred, for Specialised Consulting Practice in London. No night work. Share offered one-third, yielding approximately £1000 per annum.—Further details from No. 357, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

Resident Patients.—Doctors desiring accommodation for private patients (mental, neurasthenic, invalid, &c.) may have, post free, illustrated BOOKLET describing residences, &c., of numerous colleagues in all parts—town, country, and seaside—who receive such patients.—Apply, Manager, British Medical Bureau, Tavistock House South, Tavistock-square, London, W.C.1

London.—Cora Hotel.
Upper Woburn-place, near B.M.A. Headquarters, Accommodates 235 visitors. Modern comforts.
Excellent table. A.A. and R.A.C. recommended.
Room, bath, and table d'hôte breakfast, 8s. 6d.
A few rooms 9s. 6d. and 10s. 6d. per person.

Nursing Home for disposal in Spa town. Equipped for all General, Surgical, and Maternity cases. Annual takings about £3000. Moderate premium. Retirement only reason for sale.—BECKTON'S MEDICAL AGENCY, 18, Dix's Field, Exeter, and 6, Duke-street, Adelphi, W.C.2.

House, 4 bedrooms, large reception room, study, kitchen, lounge, hall, well planned garden overlooking Gunnersbury Park. Newly built, £2100 freehold.—Phone Ealing 4900 or call 221, Popes-lane, Ealing, W.5.

Harley Street.—Small period house, convenient, producing income, easily run, good repair, £3500.—Address, No. 358, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

TO LET.

Barking-road, Canning Town. Suite of 6 large First Floor Rooms, in prominent position. Would suit Doctor, Solicitor or other Profession. Reasonable inclusive rent. Would let whole or part Suite.—To view apply GEO. A. McDOWALL & FRANCIS, 377, Barking-road, Plaistow, E.13. Tele.: Grangewood 2838-9; or key at 143, Barking-road, E.16.

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Harley Street and District.—A number of excellent CONSULTING ROOMS are available for full and part-time use at moderate rents. Particulars on application.—ELGOOD & CO., 10, Henrietta-street, Cavendish-square, W.1. Lang. 2601.

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TOM LONG is rising to greater heights.

Austin 18 H.P. Hertford Saloon, mileage 9000, registered April, 1937, perfect condition, £175.—A. ADAMS, 31, The Chase, Coulsdon. Telephone: Uplands 4286.

Phone Primrose 1681 for New 1938 Austin Landaulette, with uniformed chauffeur on inexpensive contract. At your service day or night. Any period, or occasional hire. Highly recommended.—Apply, 34, Kingstown-street, Regent's Park, or phone PRIMROSE 1681.

IMPORTANT NOTICE
TO MEMBERS OF THE MEDICAL PROFESSION

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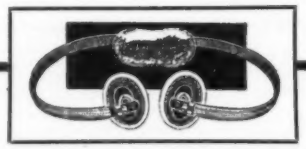

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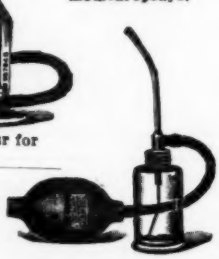

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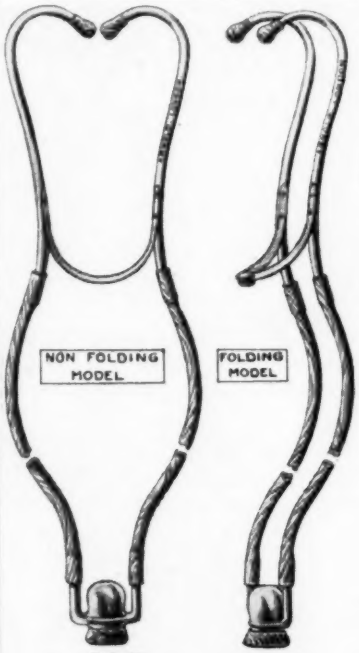

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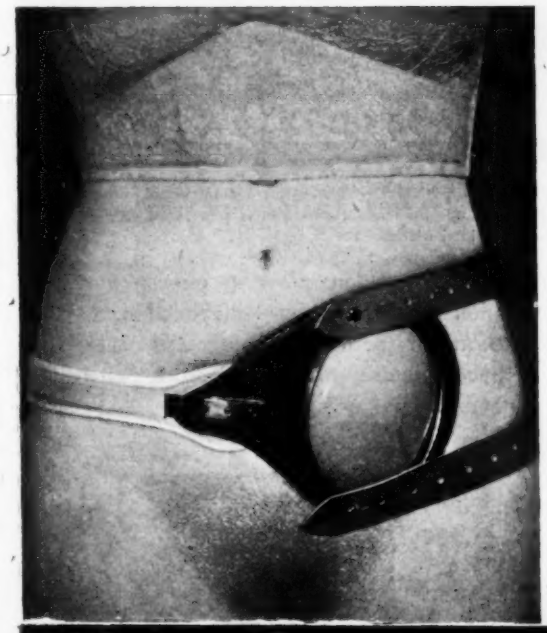

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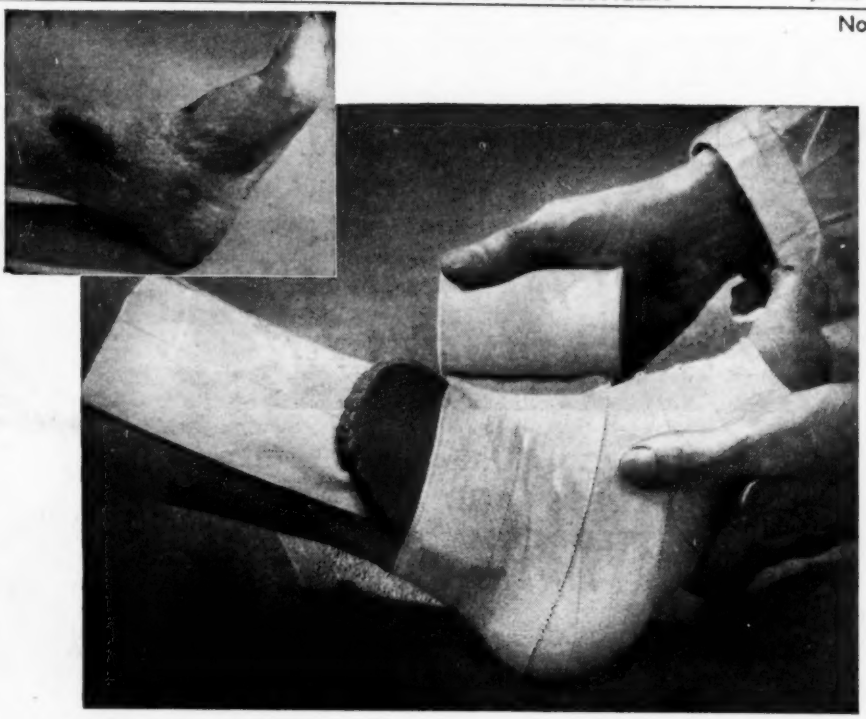

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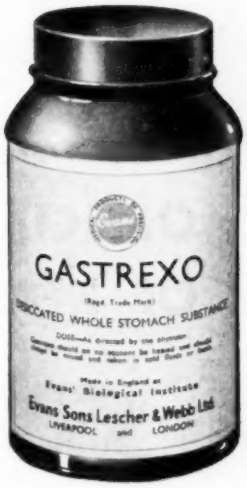

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For the conservative treatment of Otitis Media, Inflammation of the Tympanum and Tympanic Membrane, and complications of the ear arising from coryza, Influenza and other infectious diseases.

Bottles of - - 6 cc. and 10 cc.

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a Thyroid-inhibitory Substance **free from iodine, accordingly innocuous,** effective by oral administration, without addition of any medicinal agent, for conservative treatment of **Graves' Disease, Thyreotoxicoses,** disturbances of milk secretion of thyreogenic origin, iodine-free pre- and post-operative treatment in Graves' disease.

Accurately standardised: 1 tablet = 10 antithyroid units.

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The 4-Vitamin Malt Extract

Prices: (except in Eire): Jars 1/9 and 3/-; Dispensary jars (more than 7 times as much as the 3/- size), 17/-. Less usual professional discount.

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A new highly concentrated and refined solution of Liver extract for the treatment of pernicious anæmia.

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Adults: 3-5 tablets daily
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There is a vast amount of evidence of the most positive character proving the efficacy of 'Angiers' in sub-acute and chronic bronchitis. It not only relieves the cough, facilitates expectoration, and allays inflammation, but it likewise improves nutrition and effectually overcomes the constitutional debility so frequently associated with these cases. Bronchial patients are nearly always pleased with 'Angiers' and often comment upon its soothing, "comforting" effects.

The unique soothing properties of 'Angiers,' its favourable influence upon assimilation and nutrition, and its general tonic effects, make it eminently useful both during and after influenza. It has a well-established reputation for efficiency in relieving the troublesome laryngeal or tracheal cough, correcting the gastro-intestinal symptoms and combating the nervous depression and debility.

Free Samples to the Medical Profession

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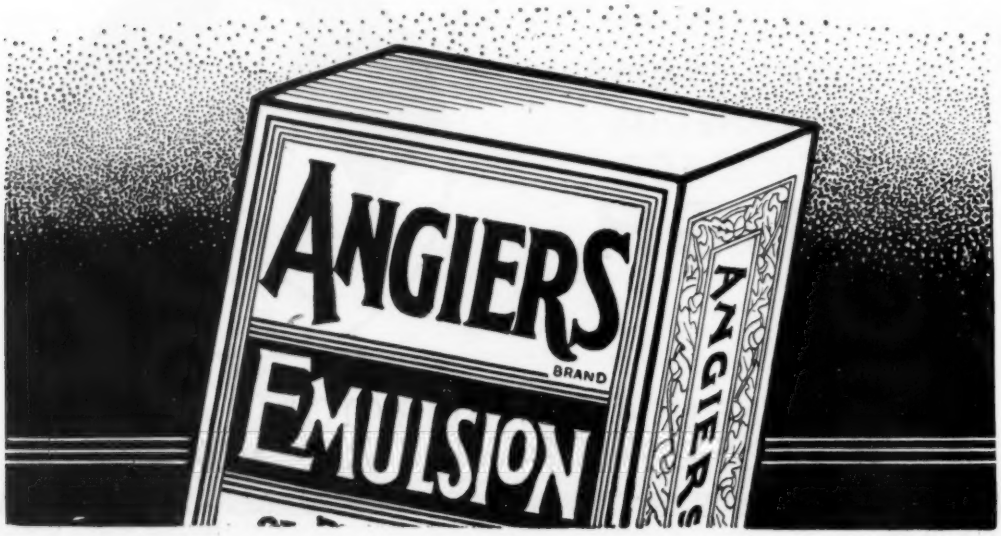

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In Wasting Diseases

To replace the tissue wastage and decrease in energy associated with wasting diseases, is a problem often rendered more difficult by the fact that there is frequently an associated anorexia and enfeeblement of the digestive and assimilative processes.

'Ovaltine' has proved to be the ideal stand-by in many such cases, because it is an energizing and reconstructive nutrient, complete in all the essential food elements. It is almost invariably well-tolerated even by disordered stomachs and is practically completely absorbed into the blood-stream.

The unique dietetic value of 'Ovaltine is derived from its content of fresh food substances—full-cream milk, new-laid eggs and malt extract. Noteworthy features are its high percentage of maltose and its entire freedom from cane sugar, starch or other undesirable constituents.

A liberal supply for clinical trial sent free on request.

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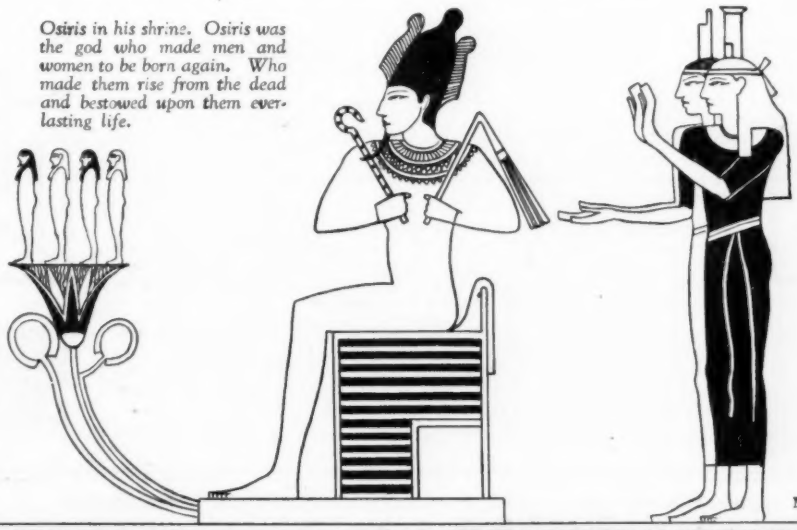
Osiris in his shrine. Osiris was the god who made men and women to be born again. Who made them rise from the dead and bestowed upon them everlasting life.



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NICOTINIC ACID B.D.H.

The recent differentiation of 'Vitamin B_2' into three factors (lactoflavine, 'pellagra-preventing' factor and B_6, the rat-dermatitis factor), followed by the investigation on the administration of nicotinic acid to pellagrins (*Journ. Amer. Chem. Soc.*, 1937, 59, 1767 and *Nature*, 1937, December 18, p.1070), established the specificity of nicotinic acid in pellagra. Confirmation of this discovery is afforded by more recent reports (*Journ. Amer. Med. Assoc.*, December 18, 1937, p.2054 and *Lancet*, January 29, 1938, p.252) and it has been shown that nicotinic acid is a precursor of the 'pellagra-preventing' factor which is elaborated after the ingestion of this substance.

Nicotinic Acid B.D.H., for the treatment of pellagrous symptoms, is available in tablets each containing 30 mg. of the pure substance.

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M267

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SPECIAL CHOCOLATE

which is Sugar Free and therefore a suitable addition to the dietary of diabetics

This chocolate is extremely palatable, and because Cadburys have unlimited facilities for laboratory research and the subsequent manufacture and marketing of such a product it sells at a very low price. Further details and analysis with a sample of this Special Chocolate will be gladly forwarded to anyone interested. Please write to Cadburys Laboratories, Bournville.

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Convalescence

In convalescence a tonic is required that will co-operate with, and augment, the natural recuperative powers of the body, rather than one which will have only an immediate stimulating effect. In the latter case there is always the danger of disappointment, due to an artificial improvement that the natural powers are unable to stabilise.

Medical evidence extending over many years has established the value of Sanatogen in promoting convalescence. In "The Elements of Pharmacy, Materia Medica and Therapeutics", Sir William Whitla writes:—

> "... *The interesting and valuable researches conducted by Tunnicliffe and Beddoes upon metabolism, in which Sanatogen was experimented with, establish the fact that its organic phosphorus is almost entirely assimilated when the food is administered in the amount necessary for the needs of the body. When given in addition to other food, the amount of nitrogen and phosphorus retained in the organism is increased; the tissue metabolism is more complete, the constituents of the ordinary food being more thoroughly utilised; appetite is increased and the body weight augmented.*"

Similarly gratifying observations are constantly being notified, and, as Sanatogen is entirely free from fats, sugars and carbohydrates, it can safely be prescribed in all types of cases. It is rapidly and easily digested and assimilated, even in cases exhibiting severe gastric inflammation, and for this reason it is a valuable addition to enemata. It can be added to any non-acid beverage or food, and, consequently, monotony in its administration can always be avoided.

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A CHEMICAL COMBINATION OF 95% MILK CASEIN AND 5% SODIUM GLYCEROPHOSPHATE

Clinical samples and literature available on request to

GENATOSAN LTD.,
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DOSAGE. For children and adults two teaspoonfuls three times daily, or according to circumstances. For infants, ½ teaspoonful added to each bottle feed.

Sold by all chemists
price 2/3 to 19/9

Pediatrists approve these purées

A range of Strained Foods giving maximum nutritive values

THE nutritional value of vegetable purées for infants and soft diet cases is receiving the endorsement of the medical profession to a very marked degree.

Hitherto the difficulties and deficiencies of home preparation—inefficient sieving and destructive oxidation—not to mention the tedium and labour involved—have hindered practical application, but the introduction of a complete range of strained foods by H. J. Heinz Co. Ltd. has been universally accepted as the solution of this problem.

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PROTEIN	4·8
CARBOHYDRATES	8·8
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CALORIES PER OZ.	17·0

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NOTE: Glass containers are not used owing to the deteriorating effect of light on vitamin content and on the palatability of the products.

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- GREEN BEANS
- MIXED GREENS
- BEETS
- PRUNES
- CEREAL
- APRICOTS AND APPLE SAUCE

★ ***Fully explanatory literature and samples gladly sent on request.***

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FOUR POINTS IN HÆMORRHOIDAL THERAPY

The well-recognized value of ANUSOL Suppositories in the medical treatment of hæmorrhoids is the result of a fourfold therapeutic effect :—

1 **PAIN IS RELIEVED**—not by the use of opiates or local anæsthetics but by reducing congestion and thus relieving pressure.

2 **CONGESTION IS REDUCED**—The emollient, protective and mildly astringent action of Anusol prevents irritation of the affected parts.

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These desirable qualities distinguish Anusol Suppositories and assure their efficacy in treatment.

Anusol is also available in ointment form in collapsible tube with nozzle.

Supplies for clinical trial sent on request.

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BRAND
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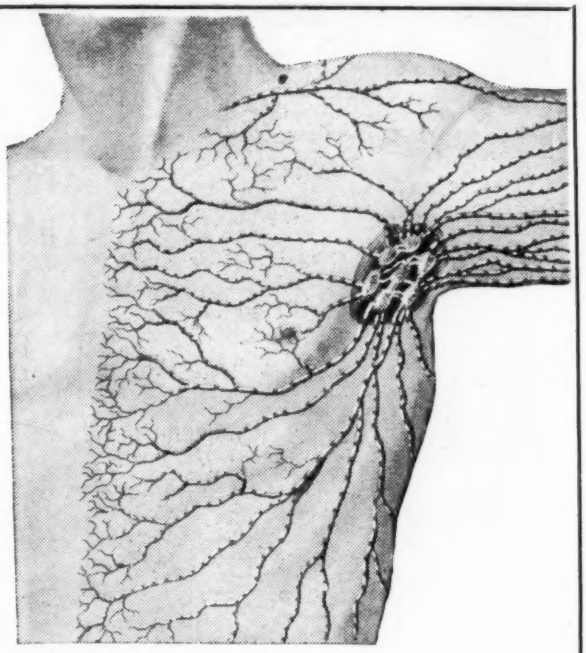

In Bronchitis Influenza Cough

Antiphlogistine

Brand Dressing

is always indicated

It stimulates the capillary network of the thorax and hence improves the local metabolism. It eases the constriction in the chest and helps to loosen the cough.

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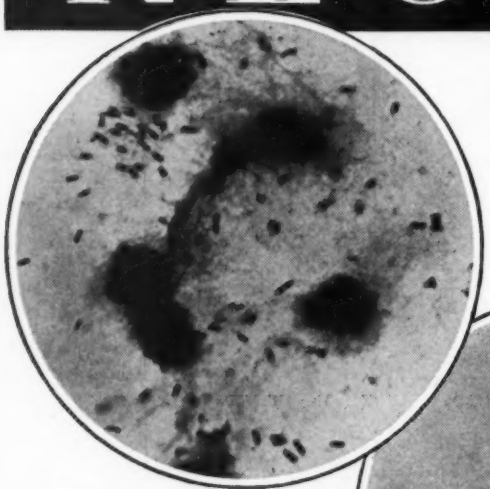
NEOKET



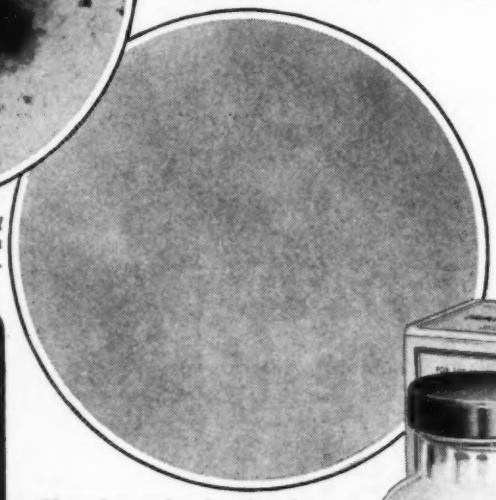
Photomicrograph showing B. coli *and pus cells taken from the urine of a patient before treatment with Neoket.*

COMPOUND MANDELIC ACID GRANULES in the treatment of URINARY INFECTIONS

INDICATIONS

***B. coli* infections of the urinary tract Pyelitis, Cystitis.**

Neoket may be taken by expectant and nursing mothers and as it is free from sugar it is also suitable for diabetics.



Photomicrograph of urine from a patient six days after treatment with Neoket. The urine showed no pus and no organisms, and was sterile on culture.

CASE REPORT

Right-sided Pyelitis in a female aged 62. The kidney had been removed 35 years previously. The urine contained very large numbers of *B. coli* (proved by culture and bacteriological examination). The patient was placed on Neoket and her fluid intake restricted to about 2 pints daily for 8 days. The urine was then cultured and found to be sterile, but Neoket was continued for another week. The patient was seen 12 weeks after the commencement of treatment with Neoket, she was entirely free from symptoms, and the urine on microscopic examination was entirely free from pus and organisms.

AMMOKET (Elixir of Ammonium Mandelate)

MANDELIC ACID

SODIUM MANDELATE

Cachets of AMMONIUM CHLORIDE

METHYL RED SOLUTION

are also available for use in the treatment of Urinary Infections.

Literature and further particulars may be had on application to the

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BOOTS PURE DRUG Co. Ltd

NOTTINGHAM • ENGLAND

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An elegant preparation of Ammonium Mandelate in the form of a sweetened, orange-flavoured syrup.

Two fluid drachms contains three grammes of Mandelic Acid as the Ammonium salt. An efficient treatment for cases of Urinary Infection. No Ammonium Chloride or other additional drug is necessary in normal cases. May be given at all ages.

Dose for Adults.—Two teaspoonfuls four times daily with a little water.
Circular with full particulars free on application.

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Therapeutically equivalent to several times its weight of Sodium Salicylate without causing headache, tinnitus, &c. Has proved most useful in the external treatment of pure Rheumatism, Sciatica, Lumbago, &c. The external dose is about one drachm rubbed over the affected parts.

In 5, 10, 22, 40, and 90 oz. Bottles.

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A valuable stimulant and expectorant cough mixture, containing Carbonate of Ammonium, Ipecacuanha, Senega, Squill, and Syrup of Wild Cherry Bark. Quite free from Morphine, Opium, or poisons, so can be safely administered to children.

Dose: 1 to 2 drachms diluted.
In 22, 40, and 90 oz. Bottles only.

UNG. IODERMIOL TRADE MARK

It has been found most useful for Enlarged Glands, Rheumatic and Gouty Affections, Lumbago, Sciatica, Swollen and Stiff Joints, Skin Diseases, &c.

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Containing about 5% of Iodine, in a stainless non-irritating form, together with 5% Methyl Salicylate. Useful in the treatment of Enlarged Joints, Synovitis, Rheumatoid Affections, &c.

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A favourite and economical cough mixture, containing Hydrobromic Acid, Chlorodyne, Dilute Hydrocyanic Acid, &c. Most successful in allaying post-influenza coughs that are so persistent. One or two ounces diluted with water to make eight ounces forms one of the most effective and elegant mixtures that can be made, and certainly the least expensive.

In 22 oz., 40 oz., 4½ lb., and 8 lb. Bottles only.

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Head off the secondary complications!

STREPTOCOCCUS ANTITOXIN (SCARLATINA)

GLOBULIN *Lederle* MODIFIED

THE COMPLICATIONS OF SCARLET FEVER may be divided into two classes—

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(Parenteral)

Prolonged and world-wide experience of Neo-Hepatex has proved that no other liver product surpasses it in potency.

The combined advantages of high hæmopoietic power and low price render treatment with Neo-Hepatex remarkably economical in cost.

Physicians everywhere are now agreed :—

(*a*) That in Liver therapy the variation of requirement in different cases of primary anæmia is so pronounced as to render it impossible to foretell the dosage required with any degree of certainty.

(*b*) That whilst a system of dosage based upon minimal quantities may be harmful, there is no danger in over-dosage.

Adequate dosage of Neo-Hepatex, though small in volume, ensures rapid progress with eventually the longest possible intervals between the injections necessary for maintenance.

Neo-Hepatex is issued in ampoules :
Boxes of 6 x 1 cc. 5/- ; 6 x 2 cc. 7/6 ; 3 x 4 cc. 6/6

Made in England at Evans Biological Institute by

Evans Sons Lescher & Webb Ltd.
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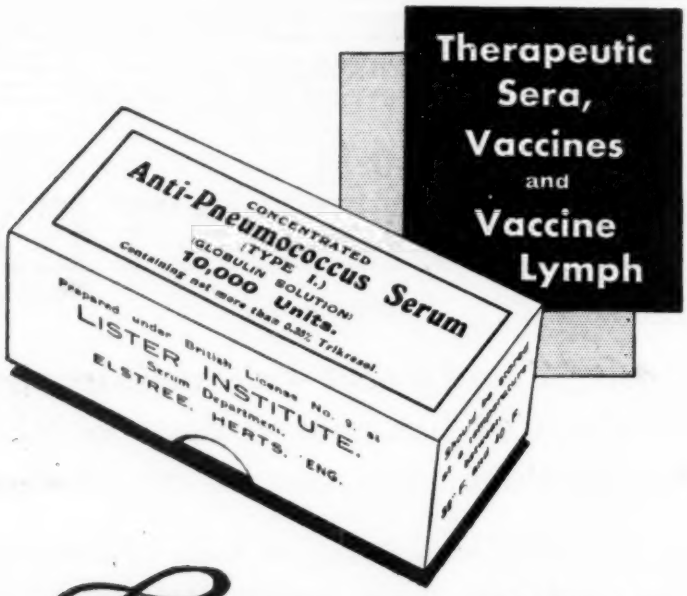

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(Type 1) Concentrated

Anti-Pneumococcus globulin solution is prepared from the serum of horses that have been immunized with virulent cultures of Type 1 pneumococcus. Early administration of the globulin solution in cases of lobar pneumonia (Type 1) is of the greatest importance, because the antibody exerts its maximum effect when it is given within the first three days of the onset of the illness.

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In ampoules of 10,000 units, **15/-** each

In circumstances where the concentrated product cannot be used owing to its cost, a natural serum is advisable. Intramuscular injections are to be preferred when the natural serum is used, and, according to reports from various sources, may be injected to give satisfactory results.

In ampoules of 4,000 units, **4/-** each
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Sole Distributors for the Lister Institute:

Allen & Hanburys Ltd.

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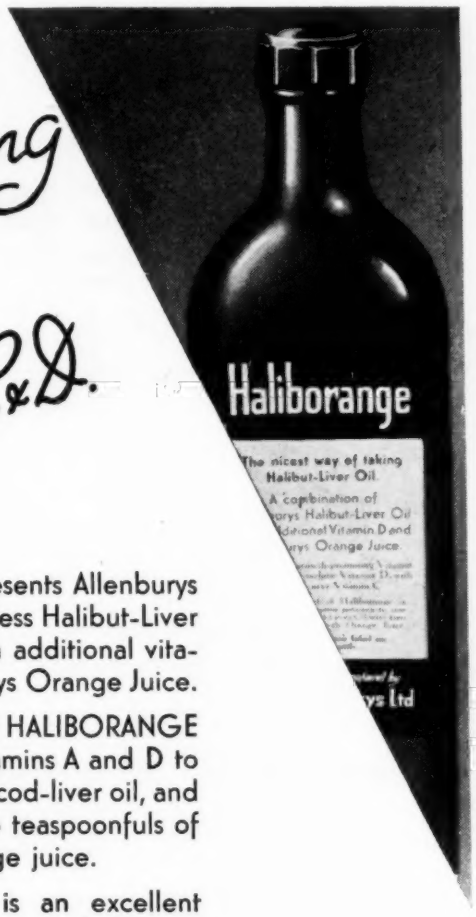

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One teaspoonful of HALIBORANGE is equivalent in vitamins A and D to one teaspoonful of cod-liver oil, and in vitamin C to two teaspoonfuls of fresh orange juice.

HALIBORANGE is an excellent addition to the diet of babies as a precaution against rickets and scurvy. For older children, adolescents, or adults, it is a prophylactic vitamin tonic.

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In 5, 10, and 40 oz. bottles

ALLEN & HANBURYS LTD.
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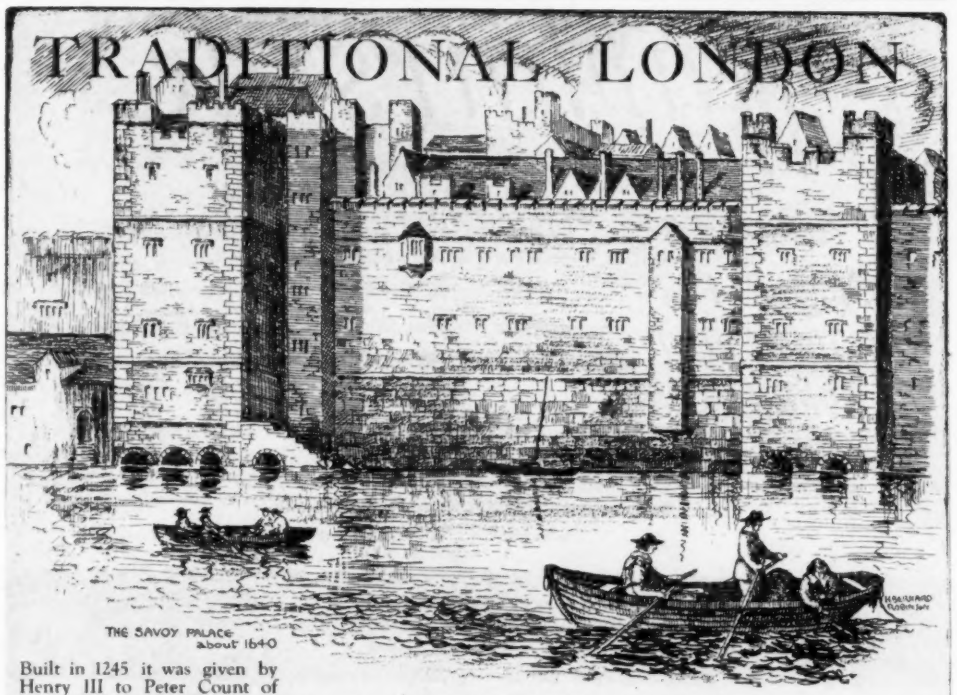

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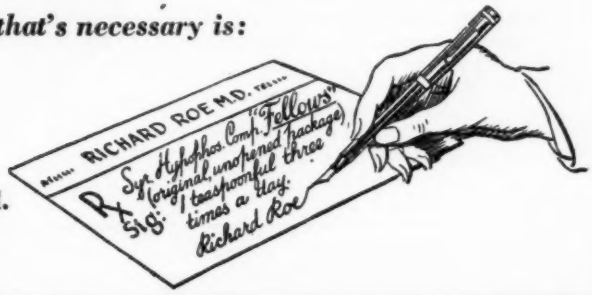

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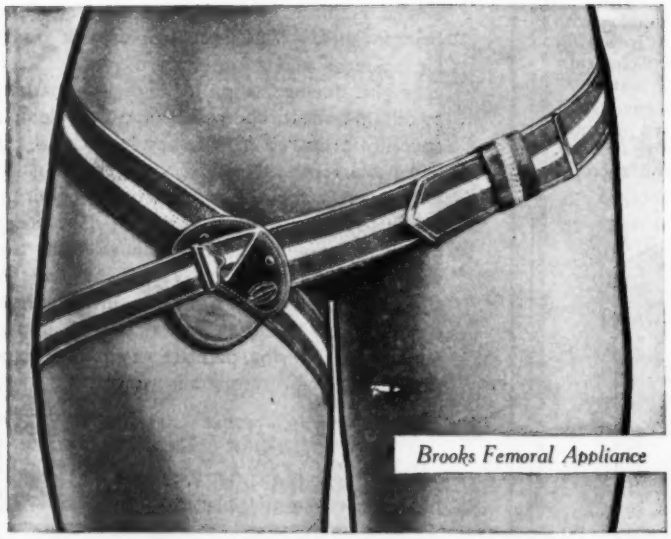

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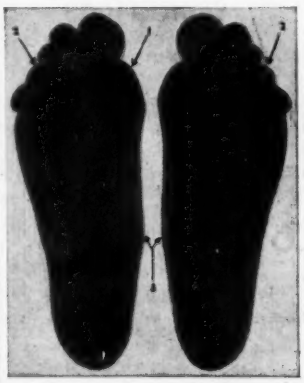

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" 10th.	Dysmenorrhœa	Mr. MALCOLM DONALDSON, F.R.C.S., F.C.O.G.
" 17th.	Sterility	Mr. V. B. GREEN-ARMYTAGE, M.D., F.R.C.P., F.C.O.G.
" 24th.	Irregular Uterine Hæmorrhage.	Mr. WILFRED SHAW, M.A., M.D., F.R.C.S., F.C.O.G.
" 31st.	Hormone Therapy in Gynæcology.	Dr. T. N. MACGREGOR, M.D., F.R.C.S., F.C.O.G.
April 7th.	Genital Prolapse	Prof. W. FLETCHER SHAW, M.D., F.C.O.G.
" 14th.	Benign Neoplasms of Uterus.	Mr. L. CARNAC RIVETT, M.C., F.R.C.S., F.C.O.G.
April 21st.	Neoplasms of the Ovary	Mr. WILFRED SHAW, M.A., M.D., F.R.C.S., F.C.O.G.
" 28th.	Malignant Neoplasms of Uterus.	Mr. VICTOR BONNEY, M.D., M.S., F.R.C.S., F.R.A.C.S.
May 5th.	Radiation Therapy in Gynæcology.	Miss LOUISA MARTINDALE, C.B.E., M.D., B.S., F.C.O.G., J.P.
" 12th.	Gonorrhœa in Women	Colonel L. W. HARRISON, D.S.O., F.R.C.P.
" 19th.	Salpingitis	Mr. ALECK BOURNE, M.A., F.R.C.S., F.C.O.G.
" 26th.	Birth Control	Dr. HELENA WRIGHT, M.B., B.S., M.R.C.S., L.R.C.P.

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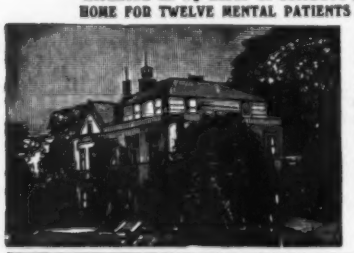

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HOSPITAL FOR MENTAL DISORDERS.

President: The Right Hon. the LORD SAYE AND SELE.

This Registered Hospital for the Treatment and Care, at moderate charges, of Mental Patients belonging to the educated classes, stands in a healthy and pleasant situation on Headington Hill, near Oxford. Voluntary and Temporary Patients are also received for treatment. The adjacent estate of HIGHFIELD PARK has recently been acquired and the house, which has been modernised and equipped with every comfort, is now available for mild and convalescent patients. Private suites can be arranged.

For further particulars apply to the Physician-Superintendent

BARNWOOD HOUSE, GLOUCESTER.

A REGISTERED HOSPITAL FOR THE CARE AND TREATMENT OF LADIES AND GENTLEMEN SUFFERING FROM NERVOUS AND MENTAL DISORDERS.

Within two miles of the G.W. Railway and L.M. & S. Railway Stations at Gloucester, the Hospital is easily accessible by rail from London and all parts of the United Kingdom. It is beautifully situated at the foot of the Cotswold Hills, and stands in its own grounds of over 280 acres. Voluntary Boarders of both Sexes are also received for treatment.

Special accommodation for Lady Voluntary Boarders is also provided at the MANOR HOUSE, which has its own private grounds and is entirely separate from the main Hospital.

For particulars as to terms, &c., apply to G. W. T. H. FLEMING, M.R.C.S., L.R.C.P., D.P.M., Medical Superintendent.

Telephone: No. 6207 Barnwood.

RUSSELLS

HEMEL HEMPSTEAD ROAD, WATFORD

Telephone: WATFORD 5917

This new convalescent home has just been opened for the care and treatment of mild and recoverable mental and nervous conditions in both sexes.

The house is situated high up, in 40 acres of beautiful grounds, 17 miles from London. One Lady Doctor is in residence, and another specialist in psychological medicine is in daily attendance. Fees from ten guineas a week, inclusive.

Apply: RESIDENT MEDICAL OFFICER.

CHISWICK HOUSE,

PINNER, MIDDLESEX.

Telephone: PINNER 234.

A Private Hospital for the Treatment and Care of Mental and Nervous Illnesses in both Sexes.

A modern country house, 12 miles from Marble Arch, in attractive and secluded surroundings. Fees from 10 guineas per week inclusive. Cases under Certificate, Voluntary and Temporary Patients received for treatment.

DOUGLAS MACAULAY, M.D., D.P.M.

STRETTON HOUSE,

Church Stretton, Shropshire.

A PRIVATE HOME for the treatment of gentlemen suffering from Mental and Nervous illness, including the allied Disorders of Alcoholism and the Drug Habit. All types of early Mental and Nervous Cases are received without Certificates as Voluntary Boarders. Bracing hill country. See "Medical Directory," p. 2328.—Apply to Medical Superintendent. 'Phone 10 P.O., Church Stretton.

CITY OF LONDON MENTAL HOSPITAL

Near DARTFORD, KENT.

Ladies and Gentlemen received for treatment under certificates, and without certificates as either VOLUNTARY or TEMPORARY PATIENTS, at a weekly fee of TWO GUINEAS, and upwards.

HILL END HOSPITAL AND CLINIC

FOR THE PREVENTION AND TREATMENT OF MENTAL AND NERVOUS DISORDERS

(20 miles from London)

Ladies suffering from all forms of MENTAL ILLNESS are received for treatment, on modern lines, as Voluntary, Temporary or Certified Private Patients at the Hill End Hospital. Convalescent or mild cases can be treated in a delightful country mansion, with extensive grounds, known as

HIGHFIELD HALL,

situate about a mile away from the Hospital.

FEES TWO TO THREE GUINEAS PER WEEK.

For further particulars apply to the Medical Superintendent, W. J. T. KIMBER, L.R.C.P., D.P.M.

ST. ALBANS, HERTS

SPRINGFIELD HOUSE

'Phone: BEDFORD 3417. **Near BEDFORD**

For Mental Cases with or without Certificates.

Ordinary Terms: Five Guineas per week (including Separate Bedrooms for all suitable cases without extra charge)

For forms of admission, &c., apply to the Resident Physician, CEDRIC W. BOWER.

INTERVIEWS IN LONDON BY APPOINTMENT.

PORTSMOUTH CITY MENTAL HOSPITAL

Accommodation is provided for the reception of PRIVATE PATIENTS of both sexes in three detached Villas, which are healthily and pleasantly situated in extensive grounds with sea views.

Charges from 3 guineas weekly, including all necessaries except clothing.—Apply to the Medical Superintendent and Resident Physician. THOMAS BEATON, O.B.E., M.D., F.R.C.P.

MALLING PLACE, KENT

For LADIES and GENTLEMEN of Unsound Mind

Terms moderate: Apply to Resident Medical Superintendent. Telegrams: ADAM WEST MALLING. Telephone: No. 2 MALLING.

EPILEPSY

Owing to extensions there are at present a few Vacancies at the

DAVID LEWIS COLONY

For Ladies and Gentlemen who have Epilepsy but are of good intelligence and sound mind.

Colony life gives to most people who have epilepsy the best chance of happiness and contentment.

Apply to the DIRECTOR, THE DAVID LEWIS COLONY, WARFORD, ALDERLEY EDGE.

HOME FOR EPILEPTICS

MAGHULL (near LIVERPOOL)

FARMING and OPEN AIR OCCUPATION for PATIENTS

A few vacancies in 1st and 2nd Class Houses.

FEES: 1st Class (men only) from £3 p.w. upwards. 2nd Class (men and women) 32/- p.w.

For further particulars apply:

C. EDGAR GRISEWOOD, A.C.A., Secretary, 20, Exchange Street East, Liverpool, 2

SUNNYSIDE RESTORIUM

Hassocks, Sussex

The Ideal Centre for Patients convalescing after Illness or Operation, and for those requiring treatment by Physical Methods.

One hour from London, fifteen minutes from Brighton. Situated in delightful grounds overlooking the South Downs, The Sunnyside Restorium with its Southerly aspect and sheltered from cold winds enjoys a climate Mild but not Relaxing, the maximum of Sunshine and a complete freedom from Fogs.

Formed on the American Plan, patients reside in the cheerful atmosphere of a fully licensed, high-class Country Hotel with every modern convenience, yet home comforts, and free from the irksome restrictions of Nursing Home or Clinic.

TREATMENTS available include Foam and other Baths, Radiant Heat, Ultra-violet and Infra-red Ray, Diathermy, Electro-therapy, Massage, Remedial Exercises, etc. Special Dieting when required. All treatments are given by fully qualified Massage Staff, under the supervision of the Resident Physician.

Special attention given to visitors from overseas who are in England for treatment or observation by London Consultants.

LIFT to All Floors.

An Invitation is extended to Medical Practitioners to visit the Restorium. Reduced Terms to Doctors and their Families.

Write for Fully Illustrated Brochure and Terms to:—

THE RESIDENT PHYSICIAN, SUNNYSIDE RESTORIUM, HASSOCKS, SUSSEX.

Telephone: Hassocks 103.

THE ROYAL EARLSWOOD INSTITUTION

FOR MENTAL DEFECTIVES, REDHILL, SURREY.

(Formerly the EARLSWOOD ASYLUM.) PATRON: H.M. THE KING.

FOR THOSE REQUIRING CONTROL with EXPERT SUPERVISION and needing SPECIAL TRAINING in useful occupations, *SCHOOLS, FARMING, and various TRADE WORKSHOPS.*

Inclusive fees from £110 p.a. *THOSE UNABLE TO PAY FULL FEES* admitted by votes of subscribers with part payment towards cost.

RECREATIONS: Outdoor games. MALE STAFF BAND for Concerts, Dancing, etc.

Apply: THE MEDICAL SUPERINTENDENT, Earlswood, Redhill, Surrey, *'Phone:* REDHILL 344; or to the Secretary, Mr. H. STEPHENS, 14-16, Ludgate Hill, E.C.4, *'Phone:* CITY 4697.

BETHLEM ROYAL HOSPITAL

FOR NERVOUS AND MENTAL DISORDERS

Monks Orchard, Monks Orchard Road, Eden Park, Beckenham, Kent.

Reg. Tel. Address: BETHLEM, BECKENHAM *Telephone:* SPRINGPARK 1180–1181

Station: EDEN PARK (Southern Railway)

President: VISCOUNT WAKEFIELD OF HYTHE, G.C.V.O. *Treasurer:* SIR LIONEL FAUDEL-PHILLIPS, Bart.

Physician-Superintendent: J. G. PORTER-PHILLIPS, M.D., F.R.C.P.

This REGISTERED Hospital is situated at Monks Orchard in some 250 acres of park, pleasure and farm grounds. Application can be considered on behalf of patients of the educated classes in a presumably curable condition.

With a view to early treatment voluntary or uncertified patients are admitted.

Patients who can contribute 5 guineas weekly towards the cost of treatment and maintenance may be received as vacancies arise. The Committee will also consider applications for admission at lower rates and in certain cases will be prepared to admit patients free of charge.

The comfort of sensitive patients is greatly enhanced by the fact that the majority are given single bedrooms.

TREATMENT ON MODERN PRINCIPLES. Every facility for specialised investigation and treatment is provided in the Lord Wakefield of Hythe Science and Treatment Unit, including RADIOLOGICAL and DENTAL DEPARTMENTS, BIO-CHEMICAL, PATHOLOGICAL and PSYCHOLOGICAL LABORATORIES

The Medical Saff have access to a panel of Consultants in cases which present unusual symptoms requiring specialised investigation and treatment.

Under the diretction of qualified officers HELIO-THERAPY, HYDRO-THERAPY and ELECTRO-THERAPY are administered in the Physio-Therapy Department.

INSULIN TREATMENT. For special cases of mental disorder Insulin Treatment is being carried out with good results and suitable cases are accepted.

OCCUPATIONAL THERAPY in the form of various Arts and Crafts is actively encouraged from the medical aspect and under the guidance of a competent instructress this department has proved most effective as a therapeutic factor in all stages of mental illness.

The promotion of physical fitness is a prominent item of treatment and this is enhanced by arrangements for patients to take part in Outdoor and Indoor Sports and Entertainments, and special attention is drawn to the physical drill and dancing classes which form part of the regular hospital routine.

Application should be made to the Physician-Superintendent.

Smedley's
Great Britain's Greatest Hydro
Matlock

Unrivalled suites of Baths, Turkish and Russian Baths, Aix and Vichy Douches, Massage: Plombières Treatment, Studs Chair, and Electric Installation for Baths and other Medical purposes, Dowsing Radiant Heat, Infra Red Light, Artificial Sunlight, d'Arsonval High Frequency, Diathermy, Nauheim Baths, Soapless Foam Baths, etc. "Certified" Milk from own farm. Large winter garden. Orchestra. Special provision for invalids. Night attendance. Over 60 trained Male and Female Nurses, Masseurs, Attendants, etc.
Resident Physicians: G. C. R. HARBINSON, M.B., B.Ch., B.A.O.(R.U.I.), R. MACLELLAND, M.D., C.M.(Edin.). **TERMS, 13s. to 18s. per day, inclusive of board.**
Illustrated Brochure C.J. and full information on request.
Telephone—No. 17 (3 lines). *Telegrams*—Smedleys, Matlock.

LA METAIRIE **Centre of Research and Medico-Psychological Treatments**

(Near Nyon, on the Leman, Switzerland) Tel.: Nyon 95.626.

Carefully discriminated and graduated treatments of all nervous and mental affections. Happy environment, magnificent country, temperate climate.

Pathopsychological Institute annexe (Pupillography, &c.). Villa for abnormal children.

Head Physician: Dr. W. BOVEN, Professor of Psychiatry and Characterology at the University of Lausanne. (Consultation room at Lausanne, by appointment; Tel.: Lausanne 25,838.)

Collaborators: Dr. O. Löwenstein, formerly Professor at the University of Bonn, inventor of the pupillographic method. Madame Dr. Calame.

BROOKE HOUSE, CLAPTON

A PRIVATE HOME for the treatment of Nervous and Mental Disorders in both sexes. Situated in nine acres of Pleasure Grounds.

Voluntary, Temporary, and Certified Patients received.

For further particulars apply—
Dr. ERNEST ROLLINS, Resident Physician.
Tel.: Amherst 1642.

Grove House, All Stretton, Church STRETTON, SHROPSHIRE.

A PRIVATE HOME for the care and treatment of a limited number of Ladies Mentally Afflicted.
Climate healthy and bracing.
Apply to Dr. MCCLINTOCK, Proprietor and Resident Medical Superintendent.

FENSTANTON
Christchurch Road, Streatham Hill, S.W.2
A Private Home for the Treatment of LADIES with Mental and Nervous Disorders. Psycho-Therapy, Physio-Therapy, &c. 12 acres of grounds
Apply: **Dr. MADELINE R. LOCKWOOD,**
phone: TULSE HILL 7181 *Resident Physician Superintendent.*

ASHWOOD HOUSE
KINGSWINFORD, STAFFORDSHIRE

An old-established home-like Institution for the treatment of MENTAL AFFECTIONS in BOTH SEXES. Probationary cases and non-certified patients are received as well as those regularly certified.
Full particulars as to reception terms, &c., may be obtained from the Resident Medical Officer.

LITTLETON HALL, BRENTWOOD, ESSEX

(18 MILES FROM LONDON.)
400 feet above sea.
HOME for few LADIES Mentally Afflicted. Large grounds. Liverpool st. 26min. Stations Brentwood, Shenfield, one mile. Boarders received.
Apply Dr. Haynes
Telephone and Telegrams: Haynes Brentwood 45.

East Ham Memorial Hospital,
Shrewsbury-road, E.7. (100 Beds.)

Applications are invited for the post of HOUSE PHYSICIAN (Male). The appointment is for six months commencing 1st March. Salary at the rate of £150 per annum, with board, residence, and laundry.

Applications, stating age, nationality, experience, and full particulars, together with copies of three testimonials, should reach the undersigned by 10th February.

St. Bartholomew's Hospital.

WHOLE-TIME CHIEF ASSISTANT IN THE X RAY DIAGNOSTIC DEPARTMENT.

Applications are invited for the post of Whole-time Chief Assistant in the X Ray Diagnostic Department of the above Hospital.

The salary will be at the rate of from £400 to £500 per annum, and appointment will be made as from the 1st March, 1938.

Candidates, who must possess a Diploma in Medical Radiology, should send in their applications to the undersigned not later than Saturday, 19th February, 1938.

C. C. CARUS-WILSON, Acting Clerk to the Governors.

22nd January, 1938.

Borough of Ealing.

ASSISTANT MEDICAL OFFICER OF HEALTH.

Applications are invited from duly qualified Medical Men with a Public Health qualification for the position of Assistant Medical Officer of Health.

A candidate must have had at least three years' experience in the practice of his profession. The person appointed will be required to carry out medical inspection of school-children and child welfare work and perform such other duties as may be allotted as Assistant to the Medical Officer of Health and School Medical Officer.

He will be required to devote his whole time to the duties, and will not be allowed to engage in private practice. The salary will be at the rate of £600 per annum, rising by £25 per annum to £700.

A deduction of 5 per cent. will be made from the salary in accordance with the provisions of the Local Government and Other Officers' Superannuation Act, 1922, which has been adopted by the Council, and the appointment will be subject to passing the Council's medical examination in connexion therewith. Canvassing will be a disqualification.

Copies of the application forms and terms of appointment can be obtained from Dr. Thomas Orr, Medical Officer of Health, Town Hall, Ealing, W.5, to whom application, accompanied by copies of not more than three recent testimonials, must be delivered not later than the 10th February.

R. H. WANKLYN, Town Clerk.

Town Hall, Ealing, W.5.

Borough of Ealing.

RESIDENT ASSISTANT MEDICAL OFFICER.

Applications are invited from duly qualified Medical Men (single) with a Public Health qualification for the position of Resident Assistant Medical Officer.

A candidate must have had experience in the treatment of cases of infectious disease at an Isolation Hospital. The duties will include the medical care of patients in the Chiswick and Ealing Isolation Hospital, South Ealing, and the medical inspection and treatment of school-children at schools and health centres in the borough of Ealing.

The person appointed will reside at the Isolation Hospital where furnished rooms and board will be provided.

He will be required to devote his whole time to the duties and will not be allowed to engage in private practice. The salary will be at the rate of £350 per annum, rising by £25 per annum to a maximum of £550, plus board and residence, as indicated above and valued at £150 per annum.

A deduction of 5 per cent. will be made from the salary in accordance with the provisions of the Local Government and Other Officers' Superannuation Act, 1922, which has been adopted by the Council, and the appointment will be subject to passing the Council's medical examination in connexion therewith. Canvassing will be a disqualification.

Copies of the application forms and terms of appointment can be obtained from Dr. Thomas Orr, Medical Officer of Health, Town Hall, Ealing, W.5, to whom application, accompanied by copies of not more than three recent testimonials, must be delivered not later than the 10th February.

R. H. WANKLYN, Town Clerk.

Town Hall, Ealing, W.5.

ROYAL NAVAL MEDICAL SERVICE

Vacancies exist for MEDICAL OFFICERS in the Royal Navy, and applications are invited for entry in April, 1938.

Candidates below the age of 28 years are preferred and they must be registered under the Medical Acts. No examination in professional subjects will be held but candidates will be required to attend for interview by a Selection Board.

Selected candidates will be entered for Service for a period of three years in the first instance, which may be extended to five years at the discretion of the Admiralty.

At the end of three years' service officers may retire with a gratuity of £400, but those who serve for five years will receive £1,000.

At the end of five years' Short Service permanent commissions will be given to selected officers who wish to make the Naval Medical Service their permanent career. Officers transferred to the permanent list will receive a gratuity of £1,000 (less Income Tax).

Opportunities are available for officers on the permanent list to specialise, and ample provision is made for Post-graduate study.

Copies of the regulations for entry and conditions of Service, including rates of pay and allowances, may be obtained from the Medical Director-General of the Navy, Admiralty, S.W.1, and from the Deans of all Medical Schools.

Applications for entry from intending candidates must be received not later than 28th February, 1938.

HIS MAJESTY'S COLONIAL SERVICE

COLONIAL MEDICAL SERVICE

During 1938 the Secretary of State for the Colonies proposes to select a number of **MEDICAL OFFICERS** to fill vacancies, the majority of which will occur in **TROPICAL AFRICA** or in **MALAYA.**

QUALIFICATIONS.

Candidates must be British subjects of European parentage, under 35 years of age, and must possess a medical qualification registrable in the United Kingdom. Preference will be given to candidates who have held Hospital or Public Health appointments, or who have special knowledge of anæsthetics, radiology, surgery, medicine, ophthalmology, gynæcology and midwifery, diseases of the ear, nose, and throat, venereal diseases, &c.

SALARY.

Initial salaries vary from £600 to £700, and rise by increments to a maximum of between £1000 and £1200.

PRIVATE PRACTICE.

Private practice is not allowed as of right, but in the case of some appointments it is permitted on certain conditions.

QUARTERS.

In Tropical Africa, free quarters, or an allowance in lieu, are provided. In Malaya, quarters are provided at an annual rental not exceeding 6 per cent. of the officer's salary.

PASSAGES.

Free first-class passages are provided on first appointment and when proceeding on and returning from leave. Assistance is also given towards family passages.

TERMS OF APPOINTMENT.

The appointments are pensionable, subject to a probationary period which varies from two to three years.

COURSES OF INSTRUCTION IN TROPICAL MEDICINE and HYGIENE.

Selected candidates will normally be required to attend a course of instruction leading to the Diploma in Tropical Medicine and Hygiene before proceeding overseas.

DUTIES.

Although Medical Officers are appointed in the first instance for general service, there are opportunities for work in special branches of medicine and surgery, in public health, and in medical research.

Further particulars and forms of application may be obtained from the DIRECTOR OF RECRUITMENT (Colonial Service), 2, Richmond-terrace, Whitehall, London, S.W.1.

West London Hospital,
Hammersmith, W.6. (239 Beds.)

Applications are invited for the post of MEDICAL REGISTRAR to the Children's Department for a period of one year, eligible for re-election annually for a total period of not more than three years. An honorarium at the rate of £100 a year is attached to the post.

The duties include attendance in the Out-patient Department on four mornings a week, acting as deputy for the Physician to the Children's Department when required, and such teaching for the West London Hospital Medical School as the Board may approve.

Candidates, who may be Male of Female, must be registered under the Medical Act, and should have had wide experience in Children's work.

Applications, with copies only of testimonials, should reach me not later than Thursday, 17th February. Candidates must attend the Meeting of the Medical Council at 4.30 P.M. on Friday, 18th February, and prior to that date call upon and send copies of their application and testimonials to each member thereof. They must not canvass members of the Board, but nevertheless, should send copies of their application and testimonials to each member thereof and, if so notified, be in attendance at a Meeting of the Board at 5 P.M. on Tuesday, 22nd February, when the election will be made.

H. A. MADGE, Secretary.

St. John's Hospital,
Lewisham, S.E.13.

Applications are invited for the resident posts of HOUSE PHYSICIAN AND CASUALTY OFFICER (Males), tenable for six months from March 1st, 1938. Salary £100 per annum.

Applications, with copies of testimonials, should reach the undersigned by February 8th.

J. C. GILBERT, Secretary-Superintendent.

St. John's Hospital,
Lewisham, S.E.13.

Applications are invited for the post of MEDICAL REGISTRAR (Male) to attend the Out-patient Department on two half-days a week, namely, Monday afternoon and Thursday morning. Honorarium fifty guineas per annum.

Applications, with copies of testimonials, should reach the undersigned, who will be pleased to give further information, by February 8th. J. C. GILBERT, Secretary-Superintendent.

The Hospital for Sick Children,
Great Ormond-street, London, W.C.1.

A RESIDENT AURAL REGISTRAR is required, duties to commence not later than the 1st April, 1938.

Gentlemen are invited to send in their applications, addressed to the Secretary, before 12 o'clock on Monday, 21st February, 1938, with copies of not more than three testimonials given specially for the purpose.

The appointment will be made for one year, but the holder may be re-elected for a further period of one year. Salary £150 per annum, laundry allowance £10, board and residence in the Hospital. The duties will be those of a house officer to the Aural In-patients, and of a registrar in assisting in the Aural Out-patient Department. Opportunity will be afforded for acquiring operative experience.

Candidates must be unmarried and possess a legal qualification to practise, and must have held a responsible resident appointment at a General Hospital.

All candidates must be in attendance to appear before the Joint Committee, if required, at their Meeting on Wednesday, 2nd March, 1938, at 4.45 P.M. precisely.

Forms of application and copies of the rules can be obtained from the undersigned. HERBERT F. RUTHERFORD, Secretary.

January, 1938.

Queen Mary's Hospital for the East
End, E.15.

Applicants are invited for the post of HONORARY ASSISTANT OBSTETRIC AND GYNÆCOLOGICAL SURGEON at the above Hospital.

Candidates must be Fellows of the Royal College of Surgeons of England and Members or Fellows of the British College of Obstetricians.

Applications, with copies of three recent testimonials, should be forwarded to the undersigned not later than Thursday, the 24th of February, 1938.

RAPHAEL JACKSON, Major, Secretary.

West London Hospital,
Hammersmith-road, W.6. (239 Beds.)

Required 1st March, ONE RESIDENT ANÆSTHETIST (Male). The appointment is tenable until 30th September, 1938, subject to one month's notice on either side. Salary at the rate of £100 a year, with board, lodgings, and laundry allowance.

Candidates must be registered under the Medical Act. Applications (which must be made on printed forms obtained from me) must reach me not later than first post on Friday, 18th February. Selected candidates will be required to call upon such members of the Medical Staff as directed; to be in attendance at the Medical Council Meeting on Friday, 25th February, at 4.30 P.M., and the House Committee Meeting at 5 P.M. the same day, when the appointment will be made.

H. A. MADGE, Secretary.

London County Council.
PUBLIC HEALTH DEPARTMENT.

Applications are invited for a full-time position of ASSISTANT MEDICAL OFFICER (Permanent and Pensionable). The duties will be chiefly concerned with slum clearance and school medical work. Applicants must hold a diploma or degree in Public Health. Salary £750 a year.

Forms of application (stamped addressed foolscap envelope necessary) from the Medical Officer of Health (S.D.5), The County Hall, Westminster Bridge, London, S.E.1, returnable by 12th February. Canvassing disqualifies.

London County Council.

Applications invited from Medical Practitioners of at least one year's standing to undermentioned positions. Candidates must have held resident appointment in a general hospital for at least six months. Married quarters not available.

ASSISTANT MEDICAL OFFICER (Grade I).—Salary £350–£25–£425, with board, lodging and washing.

(*a*) LAMBETH HOSPITAL, Brook-drive, Kennington-road, S.E.11.—Surgical experience, to work in radiotherapeutic department.

ASSISTANT MEDICAL OFFICERS (Grade II).—Salary £250 a year, together with board, lodging and washing. Appointment for one year only in first instance (renewable for a second year under certain conditions).

(*b*) HAMMERSMITH HOSPITAL, Ducane-road, Shepherd's Bush, W.12.—General medical duties, experience in children's diseases desirable.

(*c*) MILE END HOSPITAL, Bancroft-road, Mile End, E.1.—Experience in obstetrics and anæsthetics essential.

* (*d*) NEW END HOSPITAL, Hampstead, N.W.3.—Duties mainly medical, experience in anæsthetics essential and in obstetrics desirable.

(*e*) PADDINGTON HOSPITAL, Harrow-road, W.9.—Medical duties experience in anæsthetics desirable.

(*f*) ST. ANDREW'S HOSPITAL, Devons-road, Bow, E.3.—(Two positions.) (1) Surgical duties. (2) Anæsthetics, experience in children's diseases desirable.

(*g*) ST. GILES' HOSPITAL, St. Giles'-road, Camberwell, S.E.5.—Duties mainly medical, experience in anæsthetics desirable.

(*h*) ST. JAMES' HOSPITAL, Ouseley-road, Balham, S.W.12.—Surgical duties.

* No accommodation for a woman.

Application forms obtainable (stamped addressed foolscap envelope necessary from Medical Officer of Health, Staff Division 2B, County Hall, S.E.1, returnable by 16th February.

Canvassing disqualifies.

London County Council.

Applications invited from registered Medical Practitioners of at least one year's standing, resident in the neighbourhood, for appointment as TEMPORARY VISITING MEDICAL OFFICER (Part-time) at Dunton Farm, near Laindon, Essex, for able-bodied men. Salary £150 a year.

Application forms obtainable (stamped addressed foolscap envelope necessary) from Medical Officer of Health, Staff Division 2B, County Hall, S.E.1, returnable by 16th February. Canvassing disqualifies.

The Willesden General Hospital,
Harlesden-road, N.W.10.

The Council of Management invite applications for the appointment of GYNÆCOLOGICAL REGISTRAR.

Candidates must be Fellows of the Royal College of Surgeons of England.

Five copies of application, containing the names of three referees (testimonials should not be sent), to be received not later than the first post on Thursday, 17th February, 1938, by the Secretary of the Hospital, from whom a copy of the Regulations may be obtained.

The Marie Curie Hospital,
(Centre for Treatment of Cancer in Women by Radium and X rays).

Applications are invited from qualified Medical Women for the post of RESIDENT MEDICAL OFFICER. Previous hospital experience desirable. Salary £100 per annum.

Applications to be sent with copies of not more than three recent testimonials, to the Secretary, 2, Fitzjohn's-avenue, London, N.W.3, by Wednesday, 16th February.

West End Hospital for Nervous DISEASES.
Out-Patient Dept., 73, Welbeck-street, W.1.

The Committee of Management invites applications for the post of HONORARY PSYCHOTHERAPIST for the Out-Patient Department (Evening Sessions).

Further particulars may be obtained from the undersigned to whom applications, stating experience, and together with copies of not more than three recent testimonials, should be addressed. Candidates must hold a degree or diploma in Psychological Medicine.

J. P. WETENHALL, Secretary and House Governor.

South London Hospital for Women,
Clapham Common, S.W.4.

Applications are invited from Medical Women as
CLINICAL ASSISTANTS
for Medical Out-patients to attend on Monday afternoons; for Orthopædic Out-patients to attend on Thursday afternoons; and for Gynæcological Out-patients to attend on Friday afternoons.

Applications, with testimonials, to be sent to the secretary at the Hospital.

University of London.

The Senate invite applications for the UNIVERSITY READERSHIP IN EMBRYOLOGY tenable at University College. Salary £750 a year.

Applications (twelve copies) must be received not later than first post on 4th March, 1938, by the Academic Registrar, University of London, W.C.1, from whom further particulars should be obtained.

Metropolitan Borough of Fulham.

MATERNITY HOME AND CLINIC—RESIDENT MEDICAL OFFICER AND ASSISTANT MEDICAL OFFICER FOR MATERNITY AND CHILD WELFARE.

Applications are invited from unmarried qualified Medical Practitioners of either sex, with special obstetric experience, for the appointment of Resident Medical Officer and Assistant Medical Officer for Maternity and Child Welfare at the Council's new Maternity Home and Clinic (25 beds). The officer appointed will also have medical charge of certain antenatal, postnatal, infant welfare and ultra-violet light clinics, and experience in these and the possession of the Diploma in Public Health will be additional qualifications.

The scale of salary will be £350 per annum, rising by annual increments of £25 to £550 per annum, plus emoluments valued for superannuation purposes at £150 per annum. The commencing salary will be within the above scale at a point in accordance with the qualifications and experience of the person appointed as determined by the Council.

Detailed particulars of the terms and conditions of the appointment, together with a form of application, will be sent on receipt of a stamped addressed foolscap envelope. Applications must be delivered to me not later than 19th February. Canvassing is strictly prohibited and will disqualify.

WILFRED TOWNEND, Town Clerk.

Town Hall, Fulham, S.W.6.

The Royal Waterloo Hospital for
CHILDREN AND WOMEN, Waterloo-road, S.E.1.

ANÆSTHETIST.

There is a vacancy for an Anæsthetist (Male) at the above Hospital. Honorarium £52 per annum.

Applications, accompanied by three testimonials, should be sent to the Secretary at the Hospital not later than February 16th.

Miller General Hospital,
Greenwich-road, S.E.10.

Applications are invited for the following posts:—

CASUALTY OFFICER, Male; part time; afternoon session. Salary £150 per annum, non-resident.

Fuller particulars on application.

HOUSE PHYSICIAN (Resident), Male; unmarried. Salary £100 per annum.

HOUSE SURGEON (Resident), Male; unmarried. Salary £100 per annum.

The appointments are for six months from April 1st, 1938. There are six Resident Officers.

Application forms can be obtained from the Secretary, and must be returned not later than 18th February, 1938.

1st February, 1938.

The Prince of Wales's General Hospital,
London, N.15.

Applications are invited for the post of HONORARY MEDICAL REGISTRAR.

Honorarium £100 per annum.

Candidates must be Graduates in Medicine of a British University, or be Members of a Royal College of Physicians.

Applications, together with copies of three testimonials, to be sent to the undersigned on or before March 1st, 1938.

J. C. BURDETT, Director and House Governor.

The Prince of Wales's General Hospital,
London, N.15.

The following Resident posts will be vacant on March 15th next:—

(*a*) One JUNIOR HOUSE PHYSICIAN.

(*b*) Two JUNIOR HOUSE SURGEONS.

Salary at the rate of £90 per annum, board, residence, and laundry.

Appointments held for six months, but holders are eligible for a further term as Senior.

Candidates (Male and unmarried) must be fully qualified and registered, and applications (on the prescribed form), together with copies of three recent testimonials, should be sent to the undersigned on or before March 1st, 1938.

J. C. BURDETT, Director and House Governor.

1st February, 1938.

Metropolitan Hospital,
Kingsland-road, E.8. (150 Beds.)

Applications are invited for the post of CASUALTY OFFICER AND RESIDENT ANÆSTHETIST (Male). Salary at the rate of £100 per annum, with board, residence, and laundry. Duties to commence 1st March.

Candidates must possess a registered medical and surgical qualification of the United Kingdom.

Form of application may be obtained from the undersigned.

Applications must be returned by Friday, 18th February.

FRANK JENNINGS, House Governor and Secretary.

East Sussex County Mental Hospital,
HELLINGLY.

JUNIOR ASSISTANT RESIDENT MEDICAL OFFICER.

Applications are invited for the above post from duly qualified registered Medical Practitioners (unmarried).

Salary £350 a year, rising by four annual increments of £25 to £450, together with board, lodging, washing, and attendance, valued for superannuation purposes at £90 a year; an additional £50 a year will be paid to any candidate appointed who holds the Diploma in Psychological Medicine, or a similar Diploma.

The appointment is subject to one month's notice on either side, and to the provisions of the Asylums Officers' Superannuation Act, 1909.

Applications marked "A.M.O.," giving particulars of previous experience and copies of not more than three recent testimonials, should be addressed to the Medical Superintendent not later than the 17th February, 1938.

Warneford General Hospital,
LEAMINGTON SPA.
(164 Beds.)

Applications are invited for the post of RESIDENT CASUALTY OFFICER AND HOUSE SURGEON to one of the Hon. Surgeons. Six months' appointment. Salary £150 per annum, with board and laundry.

Applications from qualified registered Medical Practitioners should be sent together with three recent testimonials to the undersigned by 21st February, 1938.

EDWARD L. WIRGMAN, House Governor and Secretary.

The Bolton Royal Infirmary.
(315 Beds, including two Auxiliary Hospitals.)

Applications are invited from Ladies and Gentlemen for the post of HOUSE SURGEON.

Salary £150 per annum, with board, residence, laundry, and attendance.

Applications, stating age, nationality, and experience, together with copies of testimonials, should be forwarded to the undersigned not later than first post, Tuesday, February 8th.

H. CORLESS, Acting Secretary.

Manchester Royal Eye Hospital.

JUNIOR HOUSE SURGEON required. Salary £120 per annum, with residence, board, &c.

Applications (with copies of testimonials), endorsed "House Surgeon," to be addressed to the Chairman of the Board of Management.

H. R. NORTH, General Superintendent and Secretary.

County Borough of Huddersfield.

BRADLEY WOOD SANATORIUM
FOR PULMONARY AND SURGICAL TUBERCULOSIS.

RESIDENT MEDICAL OFFICER AND ASSISTANT MEDICAL OFFICER OF HEALTH.

Applications are invited for the above appointment from registered Medical Practitioners (married or single) who have had special experience in the diagnosis and treatment of tuberculosis. A good knowledge of X ray work is essential. Salary £600, rising to £700, per annum, plus house free of rent. The post is designated for the purposes of the Local Government and Other Officers' Superannuation Act, 1922, and the person appointed will be required to satisfactorily pass a medical examination.

The engagement will be terminable on three months' notice from either side. Applications should be accompanied by copies of not more than three testimonials and addressed to JOHN M. GIBSON, B.A., M.D., D.P.H., Medical Superintendent of Hospitals and Medical Officer of Health, so as to reach him not later than the 18th February, 1938.

Forms of application are not provided.

SAMUEL PROCTER, Town Clerk.

Town Hall, Huddersfield, February, 1938.

Addenbrooke's Hospital, Cambridge.

Applications are invited for the post of HOUSE SURGEON. The appointment will be for six months from March 14th, 1938, but is terminable at an earlier date by one month's written notice on either side. Salary will be at the rate of £130 per annum, with board, residence, and laundry.

Candidates (Male), who must be unmarried and duly registered, are requested to forward their applications, stating age, qualifications, &c., together with copies of not more than four testimonials, to the undersigned on or before Wednesday, February 23rd, 1938.

J. A. BEARDSALL, Secretary-Superintendent.

Lancashire County Council.

JUNIOR ASSISTANT MEDICAL OFFICER, WRIGHTINGTON HOSPITAL, APPLEY BRIDGE.

Applications are invited for the post of Junior Assistant Medical Officer (Male, unmarried) for the Wrightington Hospital, which contains 206 Beds for non-pulmonary tuberculosis (adults and children) and 20 Beds for "combined" pulmonary and non-pulmonary cases. Salary £300 per annum, together with board, residence, and laundry.

The appointment will for be six months or for twelve months as may be agreed upon.

The medical staff consists of medical superintendent, two assistants, two consultant orthopædic surgeons, and other visiting surgeons. There are excellent facilities for reading for M.D.

Forms of application and conditions of appointment obtainable from Central Tuberculosis Officer, County Offices, Preston. Letters to be marked "Wrightington M.O."

Closing date 17th February, 1938.

GEORGE ETHERTON, Clerk of the County Council.

County Offices, Preston.

Huddersfield Royal Infirmary.

(321 Beds.)

Male CASUALTY OFFICER required to commence duty on March 4th, 1938.

Salary £200 per annum, with board, residence, and laundry. Appointment for six months. Prospect according to qualifications, experience, and satisfactory service.

The Hospital is officially recognised for the Surgical Practice required of non-members before admission to the Final Fellowship Examination of the Royal College of Surgeons of England.

The post of Casualty Officer is next in seniority to that of Resident Surgical Officer.

Applications, with copies of three recent testimonials, to be addressed to the undersigned immediately.

H. J. JOHNSON, Gen. Supt. and Secretary.

Chesterfield and North Derbyshire

ROYAL HOSPITAL.

(220 Surgical and Medical Beds.)

CASUALTY OFFICER AND FRACTURE HOUSE SURGEON.

Applications are invited from fully qualified Men for the above post, to commence 1st March, 1938.

The appointment is for six months. Salary at the rate of £200 per annum, with board, apartments, and laundry.

The duties include the post of House Surgeon to the Director of the Fracture Clinic, under whose care the whole of the fractures, both in- and out-patients, are treated.

Candidates for this post should have had special fracture experience.

Applications, stating age, together with copies of three recent testimonials, should be sent to the undersigned as early as possible. M. BOONE, Superintendent and Secretary.

20th January, 1938.

Dewsbury and District General

INFIRMARY, DEWSBURY.

The Senior Post is recognised by the Royal College of Surgeons (England).

Applications are invited for the post of SENIOR HOUSE SURGEON (Male). Salary £200 per annum, with board, residence, and laundry.

Also for the post of SECOND HOUSE SURGEON (Male). Salary £150 per annum with similar emoluments. The duties are principally those of a House Physician and Casualty Officer.

The Infirmary is a new Voluntary Hospital of 100 Beds, and has the usual Special Departments, with Visiting Consulting Specialists in attendance.

Applications, stating for which post, age, and hospital experience, together with copies of recent testimonials, to be sent as immediately as possible to my Office.

FRED SMITH, Secretary-Superintendent.

Ancoats Hospital, Manchester.

CASUALTY OFFICER (Lady or Gentleman), twelve months' appointment. Applicants who have passed the Primary Fellowship Examination of one of the Royal Colleges of Surgeons will be preferred. Salary £150 per annum, with board, apartments, washing, &c. The successful applicant will do duty for the Resident Surgical Officer at alternate week-ends and other scheduled times.

HOUSE SURGEON required (Lady or Gentleman) for the Ear, Nose, and Throat Department, and to act as House Physician to one of the Honorary Physicians. Appointment for six months from the 1st March. Salary £100 per annum, with board, apartments, washing, &c.

HOUSE SURGEON required (Lady or Gentleman) for the Orthopædic Department. Appointment for six months from 1st March. Salary £100 per annum, with board, apartments, washing, &c.

Applications for the above posts, stating age, qualifications, experience, if any, and full particulars, to be forwarded to the undersigned on or before Wednesday, 9th February, together with copies of three recent testimonials.

By order of the Board.

HERBERT J. DAFFORNE, Gen. Supt. and Secretary.

University of Aberdeen.

LECTURESHIP IN BACTERIOLOGY.

The University Court will shortly proceed to the appointment of a Lecturer in Bacteriology in the University of Aberdeen.

The salary proposed is £500 to £600, according to qualifications and experience.

Persons desirous of being considered for the office are requested to lodge their names with the Secretary to the University on or before 18th February, 1938.

The conditions of appointment and form of application may be obtained from the undersigned.

H. J. BUTCHART,
Secretary to the University of Aberdeen.

The University, Aberdeen.

County Borough of Wolverhampton.

NEW CROSS HOSPITAL.

(350 Beds.)

ASSISTANT MEDICAL OFFICER (RESIDENT).

Applications are invited from single Gentlemen, duly qualified, for appointment as Assistant Medical Officer at the above Hospital, which contains Medical, Surgical, Maternity, Children's, and Isolation Departments, and is modernly equipped.

Experience in Anæsthetics, a knowledge of Clinical Pathology, and previous Hospital experience will be deemed additional assets.

Salary will be at the rate of £200 per annum, with apartments, board, attendance, &c.

The appointment will be limited to a term not exceeding one year.

Further information as to the duties, &c., may be obtained from the Medical Officer of the Hospital.

Applications, stating age, qualifications, and nationality, together with copies of recent testimonials, should be addressed to:— A. G. ALDRIDGE, Public Assistance Officer.

Stafford-street, Wolverhampton.

The Duchess of York Hospital for

BABIES, MANCHESTER, 19.

(80 Cots.)

Applications are invited for the post of SENIOR RESIDENT MEDICAL OFFICER. Appointment is for six months from 1st April, 1938. Salary £125 per annum, with board, residence, and laundry. Previous experience essential.

Also JUNIOR RESIDENT MEDICAL OFFICER for six months from 1st April, 1938. Salary £75 per annum, with board, residence, and laundry.

Applications, with copies of testimonials, to be sent to the Secretary by the 14th February, 1938.

LOUISE BAILEY, Secretary.

Gloucestershire County Council.

DEPUTY COUNTY MEDICAL OFFICER OF HEALTH.

Applications are invited for the appointment of Deputy County Medical Officer of Health (Male) at a salary of £750 per annum. Travelling and subsistence allowances will be paid in accordance with the Council's scale.

The appointment will be a designated post for the purposes of the Local Government and Other Officers' Superannuation Act, 1922, and will be subject to a satisfactory report by the Council's medical adviser.

Applicants must be registered Medical Practitioners, should hold a Diploma in Public Health, and have experience in general public health duties and in the administrative work of a Public Health Department.

Forms of application, with particulars of the duties and conditions of appointment, may be obtained from the County Medical Officer of Health, Shire Hall, Gloucester, to whom completed applications, with copies of three recent testimonials, should be sent not later than 14th February, 1938.

Canvassing, directly or indirectly, will be a disqualification.

RICHARD L. MOON, Clerk of the County Council.

Shire Hall, Gloucester.

Gloucestershire County Council.

ASSISTANT COUNTY MEDICAL OFFICER OF HEALTH.

Applications are invited for the appointment of Assistant County Medical Officer of Health (Male) at a salary of £500 per annum, rising by £25 per annum to £700 per annum. Travelling and subsistence allowances will be paid in accordance with the Council's scale.

The appointment will be a designated post for the purposes of the Local Government and Other Officers' Superannuation Act, 1922, and will be subject to a satisfactory report by the Council's medical adviser.

Applicants must be registered Medical Practitioners, should hold a Diploma in Public Health. Previous experience in various branches of public health and school medical work is desirable.

Forms of application, with particulars of the duties and conditions of appointment, may be obtained from the County Medical Officer of Health, Shire Hall, Gloucester, to whom completed applications, with copies of three recent testimonials, should be sent not later than 14th February, 1938.

Canvassing, directly or indirectly, will be a disqualification.

RICHARD L. MOON, Clerk of the County Council.

Shire Hall, Gloucester.

City and County of Bristol.

ASSISTANT MEDICAL OFFICER OF HEALTH.

The Council invite applications for a Whole-time ASSISTANT MEDICAL OFFICER OF HEALTH. Age not exceeding forty years. Salary £500 per annum, rising by annual increments of £50 to £700. The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922.

The duties will consist mainly of giving Anæsthetics for Dental Surgeons, but he may also be required to work in any of the Corporation's Institutions, or to carry out any other work under the direction of the Medical Officer of Health.

Applications, which must be on the form provided for this purpose, should be accompanied by not more than three recent testimonials, and must be received by the undersigned not later than Wednesday, 9th February, 1938. Envelopes should be endorsed "Assistant Medical Officer of Health."

Canvassing will disqualify.

JOSIAH GREEN, Town Clerk.

Council House, Bristol, 1, 21st January, 1938.

Derbyshire Royal Infirmary, Derby.

(General Hospital. 362 Beds.)

Applications are invited for the following posts:—
HOUSE SURGEON for Gynæcological Department.
HOUSE SURGEON for Ear, Throat, and Nose Department.
HOUSE SURGEON for Casualty Department.
(Male, single.)

Candidates must be qualified and registered under the Medical Acts.

Salary will be £150 per annum, with apartments, board, &c.

Applications, with copies of testimonials, to be sent to the undersigned. ARTHUR TAYLOR, Superintendent and Secretary.

County Borough of Blackburn.

LADY ASSISTANT MEDICAL OFFICER OF HEALTH AND ASSISTANT SCHOOL MEDICAL OFFICER.

Applications are invited from duly registered Women Practitioners for the appointment of Assistant Medical Officer of Health and Assistant School Medical Officer to act under the direction and supervision of the Medical Officer of Health, who is also School Medical Officer. The salary is at the rate of £600 per annum, rising by annual increments of £25 to £700 per annum.

The person appointed must have had at least three years' post-graduate experience in the practice of her profession and special experience of midwifery and ante-natal work. Special post-graduate experience in the treatment of venereal diseases and the diseases of children, and the possession of a registrable degree or diploma in Public Health, will be deemed additional qualifications.

Applications to be made on forms to be obtained from the Medical Officer of Health, Victoria-street, Blackburn, and returned to him not later than Saturday, the 12th February, 1938, endorsed "Assistant Medical Officer of Health."

Canvassing, directly or indirectly, will be a disqualification.

CHAS. S. ROBINSON, Town Clerk.

Town Hall, Blackburn, 25th January, 1938.

Administrative County of Cambridge.

DEPUTY MEDICAL OFFICER OF HEALTH.

The Cambridgeshire County Council invite applications for the post of Deputy Medical Officer of Health for the County from duly qualified Practitioners registered in the Medical Register as holders of a diploma in sanitary science, public health, or state medicine.

The officer appointed will act under the direction of the Medical Officer of Health for the County (who is also School Medical Officer) in the general administration of public health and in other medical work of the Council, including that of the Education Authority. The duties will be mainly in connexion with school medical inspection, and experience in refraction and diseases of the eye is essential.

The officer appointed must not engage in private practice or hold any other appointment.

The salary attached to the post is £600 per annum, rising by increments of £50 to £750 per annum. A car will be provided or an allowance made for travelling, but there will be no subsistence allowance within the County.

The post is subject to superannuation, and the selected candidate will be required to undergo a medical examination. The appointment will be terminable by three months' notice in writing on either side.

A form of application (with any further information desired) can be obtained from the Clerk of the County Council by sending a stamped addressed foolscap envelope.

Applications must be received not later than the 28th February, 1938. ASHLEY TABRUM, Clerk of the Council.

Shire Hall, Castle Hill, Cambridge, 25th January, 1938.

Royal Eye Hospital, Pevensey-road, EASTBOURNE.

NON-RESIDENT HOUSE SURGEON required to commence duty forthwith. Salary £100 per annum and allowance in lieu of board-residence £175 per annum.

Applications, stating age, qualifications, and Ophthalmic experience, together with recent testimonials, should reach the undersigned as soon as possible.

Before engagement candidates have to be interviewed by appointment by the Hon. Surgeon, from whom further particulars could be obtained in person.

H. BYGRAVE, Hon. Secretary.

Kettering and District General HOSPITAL.

(108 Beds.)

CONSULTANT PHYSICIAN.

Applications are invited for the above post, and should be sent, together with copies of three testimonials, to the undersigned not later than February 12th, 1938.

G. W. JACKSON, Secretary-Superintendent.

Kettering and District General HOSPITAL.

(108 Beds.)

Applications are invited for the post of HOUSE PHYSICIAN.

Salary £150 per annum, with board, residence, and laundry. Candidates must be fully qualified and registered.

The appointment is for six months, with eligibility for a further period.

Applications, stating age, nationality, and qualifications, together with copies of three testimonials, to be sent to the undersigned as soon as possible.

G. W. JACKSON, Secretary-Superintendent.

The University of Manchester.

SIR HENRY ROYCE RESEARCH FELLOWSHIP.

Applications are invited for the Sir Henry Royce Research Fellowship founded under the Will of the late Sir Frederick Henry Royce, Bart. The Fellowship, for research on *either* "The Common Cold, its nature, prevention and cure," *or* "Influenza, its nature, prevention, and cure" is of the value of £500 per annum and will be tenable in the first instance for a period of three years. Applicants must be graduates of a British University, and must be either registered Medical Practitioners or otherwise qualified to undertake research in the subjects specified. Further particulars and forms of application may be obtained from the Registrar, the University, Manchester, 13.

All applications to be made on a prescribed form must be sent to reach him not later than February 28th.

County Borough of Blackburn.

ASSISTANT MEDICAL OFFICER OF HEALTH.

Applications are invited for the post of Assistant Medical Officer of Health (Male), whose principal duties will be to act as Clinical Tuberculosis Officer for the Town and Resident Medical Officer of the Corporation Hospital in which cases of tuberculosis and other infectious diseases are treated.

Applicants must not be less than twenty-five years of age and, subsequent to qualification, shall (1) have had at least three years' experience in the practice of their profession, (2) have spent in general clinical work a period of not less than eighteen months, of which not less than six months have been spent in a hospital as resident officer in charge of beds occupied by general medical or surgical cases, and (3) have received special training for a period of not less than six months in the diagnosis and treatment of tuberculosis.

Preference will be given to candidates who, in addition to the requirements mentioned above, hold a Diploma in Public Health, and who have held a resident post in an Infectious Diseases Hospital.

The salary will be £600 per annum together with board and residence. Married quarters are not available.

A form of application and list of duties may be obtained from the Medical Officer of Health, Public Health Offices, Victoria-street, Blackburn, to whom applications, together with copies of three recent testimonials, endorsed "Assistant Medical Officer of Health," should be sent not later than noon on Saturday, the 19th day of February, 1938.

Canvassing directly or indirectly will be a disqualification.

CHAS. S. ROBINSON, Town Clerk.

Town Hall, Blackburn, 28th January, 1938.

West Sussex County Mental Hospital.

APPOINTMENT OF MEDICAL SUPERINTENDENT.

The Visiting Committee are desirous of receiving applications from duly registered and qualified Medical Practitioners for the Office of Medical Superintendent from candidates whose age does not exceed forty-five.

The accommodation of the Hospital is for 1045 patients.

The initial salary will be £1100 a year rising by two annual increments of £50 each to £1200 with unfurnished house, the Committee paying rates and taxes, light washing, coals, and garden produce.

The candidate appointed will be required to enter upon his duties on, or before 1st June, 1938, and to give up the whole of his time to the duties of his office, and not to attend to, or engage in, any professional or other business, or employment, except that of the Hospital, and not to have any interest, direct or indirect, in any establishment or house for the reception of any mental or other patients.

Applications, stating age, qualifications, and experience, accompanied with copies of testimonials, not exceeding three (and which will not be returned) to be sent to me endorsed "Medical Superintendent" on or before the 23rd February, 1938.

Personal canvassing is strictly prohibited.

G. H. B. PETERS, Clerk to the Committee.

9, West Pallant, Chichester, Sussex, 29th January, 1938.

Department of Health for Scotland.

APPOINTMENT OF REGIONAL MEDICAL OFFICERS.

The Department of Health for Scotland are prepared to receive applications from registered Medical Practitioners (men and women) for two posts of Regional Medical Officers to be employed on combined clinical and administrative duties in connexion with the National Health Insurance Medical Service and otherwise.

Qualifications.

Applicants must be Medical Practitioners of standing in the profession and with experience in hospital and general practice. They must be not more than 45 years of age on 1st January, 1938. Consideration will be given to extra diplomas in special branches of medicine.

Residence.

Regional Medical Officers are required to reside in such part of Scotland as the Department may determine.

Remuneration.

The rate of remuneration will be £800 by annual increments of £30 to £1100 per annum.

Duties.

Regional Medical Officers are required to perform such duties as may be assigned to them from time to time by the Department, including :—

(*a*) Clinical work arising out of questions of incapacity for work or diagnosis and treatment, among insured persons;

(*b*) Administrative work in connexion with the Insurance Medical Service.

Further particulars and forms of application may be had from the Secretary, Department of Health for Scotland, 125, George-street, Edinburgh, 2. Letters applying for forms of application should have the words "Regional Medical Officer" boldly written in the top left-hand corner of the envelope. Applications should reach the Department not later than 28th February, 1938; any received after that date will not be considered.

Department of Health for Scotland.

APPOINTMENT OF MEDICAL OFFICERS.

The Department of Health for Scotland are prepared to receive applications from registered Medical Practitioners (men and women) for two posts of Medical Officer.

Qualifications.

Applicants must hold the Diploma in Public Health or equivalent qualification and weight will be given to expert knowledge and experience in relation to general and fever hospital services, food inspection, child and school health, and nutrition.

Applicants must be not more than 45 years of age on 1st January, 1938.

Remuneration.

The rate of remuneration will be £750 by annual increments of £30 to £1200 per annum.

Duties.

Medical Officers are required to devote their full time to the public service and to perform such duties as may be assigned to them by the Department from time to time.

Further particulars and forms of application may be had from the Secretary, Department of Health for Scotland, 125, George-street, Edinburgh, 2. Letters applying for forms of application should have the words "Medical Officer" boldly written on the top left-hand corner of the envelope. Applications should reach the Department not later than 28th February, 1938; any received after that date will not be considered.

Hull Royal Infirmary.

Applications are invited for the post of SECOND CASUALTY OFFICER (Male), vacant February 12th.

Salary £150 per annum, plus board, residence, and laundry.

In addition to carrying out duties in the Casualty Department the officer appointed will act as House Surgeon to one of the Honorary Assistant Surgeons, and will thus obtain Ward and Theatre experience. He will be eligible for promotion to a more senior post when a vacancy occurs.

The appointment will be for a period of six months, but will be determinable at any time by one month's notice on either side.

Applications, giving particulars of age, experience, and nationality, together with copies of testimonials, should be addressed to the undersigned.

R. J. CARLESS, House Governor.

January 31st, 1938.

The Royal Portsmouth Hospital,

PORTSMOUTH.

(Six Resident Medical Officers.)

Applications are invited for the post of :—

HOUSE SURGEON (Male) to the Orthopædic and Fracture Department.

Salary £130 per annum, with board, &c.

To commence duty on 1st March, 1938.

Six months' appointment and eligible on completion of term for extension or other resident posts.

Applications, stating age, nationality, and full details, with copies of three testimonials, to be sent to the undersigned on or before 14th February, 1938, from whom all particulars can be obtained.

B. WAGSTAFF, Secretary.

Children's Hospital, Nottingham.

Applications are invited for the post of RESIDENT HOUSE SURGEON (Woman). The salary will be at the rate of £150 per annum, with apartments, board, and laundry. The appointment will be for six months, duties to commence on the 1st May.

Applications, together with testimonials, stating age, qualifications, and experience, to be sent to the Honorary Secretary, 1, King John's-chambers, Bridlesmith-gate, Nottingham, on or before Tuesday, 15th February. Selected candidates will be required to attend at the Hospital for a personal interview.

Children's Hospital, Nottingham.

Applications are invited for the post of RESIDENT HOUSE PHYSICIAN (Woman). The salary will be at the rate of £150 per annum, with apartments, board, and laundry. The appointment will be for six months, duties to commence on the 1st April.

Applications, together with testimonials, stating age, qualifications, and experience, to be sent to the Honorary Secretary, 1, King John's-chambers, Bridlesmith-gate, Nottingham, on or before Tuesday, 15th February. Selected candidates will be required to attend at the Hospital for a personal interview.

City of Leeds.

ASSISTANT MEDICAL OFFICER.

Applications are invited from qualified and registered Medical Practitioners for the post of Assistant Medical Officer for Maternity and Child Welfare. Applicants must have had not less than three years' post-graduate experience, including experience in General Medicine and Surgery, and special experience in Obstetrics and Ante-natal work, and in the treatment of Children's Diseases and Disease of Women. Preference will be given to candidates possessing the D.P.H.

Under the present Grading Scheme of the Council, the commencing salary for the post is £500 per annum and the maximum salary £700, with annual increments of £25, subject to satisfactory service, and the first increment will take effect on the 1st April following the completion of twelve months' service.

The person appointed will be required to pass a medical examination, and to contribute to the Superannuation Fund established under the Local Government and Other Officers' Superannuation Act, 1922. The appointment will be terminable by one month's notice on either side.

Form of application and particulars as to the duties of the appointment may be obtained from the undersigned.

Applications, endorsed "Maternity and Child Welfare Officer," together with copies of three recent testimonials, must be delivered at the Health Department, 12, Market-buildings, Vicar-lane, Leeds, 1, not later than 10.30 A.M. on Saturday, 19th February, 1938.

Canvassing in any form, either directly or indirectly, will be a disqualification.

J. JOHNSTONE JERVIS, Medical Officer of Health.

The Southampton Children's Hospital

AND DISPENSARY FOR WOMEN.

The Board of Management invite applications for the post of RESIDENT MEDICAL OFFICER (Lady). Six months' appointment. Salary at the rate of £150 per annum, with board, residence, and laundry.

Applications, stating age, accompanied by copies of testimonials, to be sent to the undersigned not later than 18th February. The selected candidate will be required to take up her duties at the beginning of March.

ELLA K. MATTHEWS, Secretary.

The Gloucestershire Royal Infirmary

AND EYE INSTITUTION, GLOUCESTER.

(225 Beds. Five Residents.)

Applications are invited for the post of HOUSE SURGEON (Male) to the Ear, Nose, and Throat Department. Salary at the rate of £150 per annum, with board, residence, and laundry.

The Hospital is recognised for the D.L.O. and the F.R.C.S. Final Examinations.

The appointment is for six months, which may be extended for similar periods by re-election from time to time.

Applications, stating age, qualifications, experience, and nationality, with copies of not less than three recent testimonials, should be received by the undersigned not later than Wednesday, February 16th.

The elected candidate will be required to enter upon his duties on March 1st.

F. J. SYMONS, Secretary.

February 3rd, 1938.

The Christie Hospital and Holt Radium

INSTITUTE, WITHINGTON, MANCHESTER, 20.

Applications are invited for the post of RESIDENT MEDICAL OFFICER to the above Hospital and Institute for duty with the Radiotherapy Department to commence April 1st. Appointment is for six months in the first instance, but is renewable.

Salary at the rate of £150 per annum, plus residence (private suite), board, &c.

The appointment offers an excellent opportunity of obtaining experience in Radium and X ray Therapy.

Candidates must have had previous Medical and Surgical experience.

Applications, stating age, qualifications, and previous experience, to be received by the undersigned not later than March 1st.

PERCY N. GLASS, Superintendent.

IRAQ GOVERNMENT

APPOINTMENT OF BRITISH SURGICAL SPECIALISTS

The Iraq Government invite applications from British Medical and Surgical Specialists (Male) for the following vacant appointments:—

1. OBSTETRICIAN AND GYNÆCOLOGIST

Duties: To be Professor of Obstetrics and Gynæcology in the Royal College of Medicine, Bagdad, and Chief of the Unit of Obstetrics and Gynæcology in the Royal Hospital, Bagdad.

Salary: Iraq Dinars 150 per mensem.

2. EAR, NOSE AND THROAT SPECIALIST

Duties: To be Lecturer on Ear, Nose, and Throat diseases in the Royal College of Medicine, Bagdad, and Chief of one of the Units for these diseases at the Royal Hospital, Bagdad.

Salary: Iraq Dinars 120 per mensem. In special circumstances if it is considered that the candidate's qualifications and experience justify it a salary in excess of this amount, but not exceeding 150 Dinars per mensem, may be granted.

3. GENERAL SURGICAL SPECIALIST

Duties: To act as Surgical Specialist in any hospital of the Iraq Health Service as required, and to assist in the teaching of Surgery in the Royal College of Medicine, Bagdad, if required.

Salary: Iraq Dinars 120 per mensem.

Candidates must be experienced in operative work and must hold a Specialist's Diploma in their branch of work, such as F.R.C.S., M.C.O.G., or D.L.O.

Age must not exceed forty-five years. Successful candidates will be required to enter into contracts for a period of five years. Consultant practice is allowed provided that it does not interfere with the performance of official duties. The teaching at the Medical College is in the English language.

One Iraq Dinar is equivalent to One Pound Sterling. Salaries will be subject to Iraq Income Tax which is:—150 Dinars exempt, the next 150 Dinars subject to 6 per cent. tax and the remainder of the income 9 per cent.

Forms of application and copies of the form of Contract can be obtained from the IRAQ MINISTER, THE ROYAL IRAQ LEGATION, 22, QUEEN'S GATE, LONDON, S.W.7. Particulars as to the Provident Fund, leave, and passage allowances are given in the Form of Contract.

No application can be considered unless received *on the prescribed form* not later than February 18th.

Argyll and Bute District Mental HOSPITAL, LOCHGILPHEAD.

Applications are invited for the post of RESIDENT ASSISTANT MEDICAL OFFICER (Male). Commencing salary £300 to £350 per annum, according to previous experience and special qualifications. An additional £50 per annum will be paid if in possession of the D.P.M. Furnished apartments will be provided, with board and laundry.

The appointment will be subject to the provisions of the Asylum Officers' Superannuation Act, 1909.

Applications, stating age and experience, accompanied by seven copies of testimonials, to be addressed to the Clerk to the Joint Board of Management, County Offices, Lochgilphead, not later than 16th February, 1938.

Surrey County Council.

ASSISTANT MEDICAL OFFICER.

Applications are invited for the appointment of an Assistant Medical Officer (Male). Applicants must possess a qualification in Public Health, and have had experience in the Medical Inspection of School-children, in Maternity and Child Welfare, and in the examination and certification of mentally defective children. The officer appointed will be required to undertake such other Public Health duties as may be allocated to him. He will be on the staff of the County Medical Officer of Health, must reside in the County of Surrey, and devote his whole time to the work. Salary £600 per annum, rising by annual increments of £20 to £700 per annum. Travelling expenses in accordance with the Council's scale will be allowed.

The appointment will be subject to the approval of the Ministry of Health and of the Board of Education, to the successful candidate passing a medical examination, to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and to the Staffing Regulations of the Council, which provide, inter alia, that appointments may be determined at any time by three months' notice.

Applications, stating age, qualifications, and experience, together with copies of three recent testimonials, should be made on the prescribed forms and sent to the County Medical Officer of Health, County Hall, Kingston-upon-Thames, from whom copies of the application form may be obtained and to whom any inquiries relating to the appointment should be addressed.

Last day for receipt of applications, Wednesday, 16th February, 1938.

Canvassing, directly or indirectly, will disqualify.

DUDLEY AUKLAND, Clerk of the County Council.

County Hall, Kingston-upon-Thames, 1st February, 1938.

City of Birmingham.

SELLY OAK HOSPITAL. (520 Beds.)

JUNIOR MEDICAL OFFICER (Male).

Applications are invited from fully-equipped Medical Practitioners for the whole-time appointment of Junior Medical Officer (Male) at the Selly Oak Hospital, Birmingham. The appointment will be for a period of six months in the first instance, but may be extended at the end of that time for a further period of not exceeding six months.

Salary at the rate of £200 per annum, and full residential emoluments.

Further particulars may be obtained from the Medical Superintendent at Selly Oak Hospital, to whom applications stating age, experience, and qualifications, with copies of recent testimonials, should be forwarded not later than Wednesday, 23rd February, 1938.

F. H. C. WILTSHIRE, Town Clerk.

The Council House, Birmingham, February, 1938.

County Borough of Southend-on-Sea.

SOUTHEND MUNICIPAL HOSPITAL.

The Health Committee of the Town Council invite applications for the appointment of an ASSISTANT MEDICAL OFFICER (Grade 2) at their Municipal Hospital situated at Rochford, Essex (Beds 475). Salary £325 per annum, with full residential emoluments valued for superannuation purposes at £100 per annum.

The duration of appointment is limited to one year.

Applicants must have had previous experience in the administration of Anæsthetics.

Applications, on forms to be obtained from the Medical Superintendent, Southend Municipal Hospital, Rochford, Essex, should be returned to him on or before Monday, 21st February, 1938.

H. J. WORWOOD, Town Clerk.

Town Clerk's Office, Southend-on-Sea.

Sutton and Cheam Hospital, Sutton, SURREY.

(75 Beds.)

Applications are invited for the post of JUNIOR RESIDENT MEDICAL OFFICER (Male). Salary £100 per annum, with residence, board, and laundry. The appointment will be for six months from 1st April next.

Applications, giving full particulars as to age and qualifications, together with copies of three recent testimonials, should be sent to the Secretary not later than Monday, 21st February.

The Birmingham United Hospital,
THE GENERAL HOSPITAL.

The Board invites applications for the post of ASSISTANT SURGEON.

Candidates must be Fellows of the Royal College of Surgeons of England.

The position is an annual appointment for three years and then subject to confirmation. An honorarium of £50 per annum will be paid from the date of appointment.

The successful candidate will commence his hospital duties on July 1st next. Upon appointment he will be given leave of absence in order that he may enlarge his experience at other centres, and he will be expected to do this.

Applications, accompanied by diplomas, certificates of registration, and testimonials, must be received by first post on February 21st.

A. H. LEANEY, Joint Secretary.

Newcastle-upon-Tyne Education
COMMITTEE.

APPOINTMENT OF ASSISTANT SCHOOL MEDICAL OFFICER.

Applications are invited for an appointment as full-time Assistant School Medical Officer (Man). Salary £500 per annum, rising by £25 per annum to a maximum of £700 per annum in accordance with the National Scale. Applicants should have had at least three years' experience in the practice of their profession subsequent to obtaining their qualifications. Special experience in the administration of anæsthetics, also in refraction and the prescribing of spectacles, is desirable.

Form of application and particulars of the appointment may be obtained by sending a stamped addressed foolscap envelope to the Director of Education, Education Office, Northumberland-road, Newcastle-upon-Tyne, 2.

Applications will be received up to and including 25th February, 1938.

THOS. WALLING, Director of Education.

Education Office, Northumberland-road, Newcastle-upon-Tyne.

The Royal Infirmary, Bradford.

HOUSE SURGEON (Male) wanted for 1st of March. Eight months' appointment. Candidates must be single and legally qualified. Salary £150 per annum, with board, residence, and washing.

There are 345 beds and 10 Resident Officers.

Applications, stating age, qualifications, and previous experience with copies of recent testimonials should be sent to the undersigned at once.

H. TRUSSON, House Governor and Secretary.

Dated 1st day of February, 1938.

The University of Liverpool.

The Council invites applications for the following posts:—Two DEMONSTRATORSHIPS (ungraded) in PHYSIOLOGY. Salary £300 per annum. The appointments will take effect as from 1st October, 1938.

Applications should be received by the undersigned not later than 1st April, 1938, from whom further particulars may be obtained.

STANLEY DUMBELL, Registrar.

February, 1938.

Doctor with good Surgical experience required June, GRENFELL MISSION HOSPITAL, NORTH NEWFOUNDLAND. 85 beds, overflow often much greater. Salary about 1000 dollars with travel and living. Apply by letter, Grenfell Association, 66, Victoria-street, London, S.W.1.

The Evans Biological Institute invite applications from well-qualified experienced BACTERIOLOGISTS for a senior appointment in the Institute.

Candidates should have a medical qualification and a knowledge of Practical Serology although not essential, would be an advantage. Ample facilities will be provided for research and the appointment carries excellent salary prospects.

Applications stating qualifications, &c., should be made to the Medical Director, Evans Biological Institute, Runcorn, Cheshire.

The Royal Army Medical Corps ASSOCIATION, 85, Eccleston-square, S.W.1 (Telephone: Victoria 2722), supplies qualified Dispensers, Book-keepers, Laboratory Assistants, Sanitary Assistants, Male Nurses, Mental and Special Treatment Orderlies, Dental Clerk Orderlies, Porters, Caretakers, &c., without charge to respective employers.

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Wanted.—Post as Secretary-Receptionist.—Apply to Miss Norris, 60, Cautley-avenue, Clapham Common, S.W.4.

Dispenser (Lady), many years' experience, desires post in London. Good testimonials.—Address, No. 361, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

Laboratory Technician. — Bacteriological and biochemical examination of specimens. Expert in Hæmatology and photomicrography. Qualified X ray operator. If necessary, can bring complete laboratory equipment.—Address, No. 362, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

Research Worker, with special training in Asthma investigation, would like to coöperate with physician requiring assistance.—Address, No. 363, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

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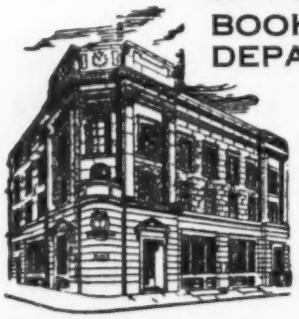

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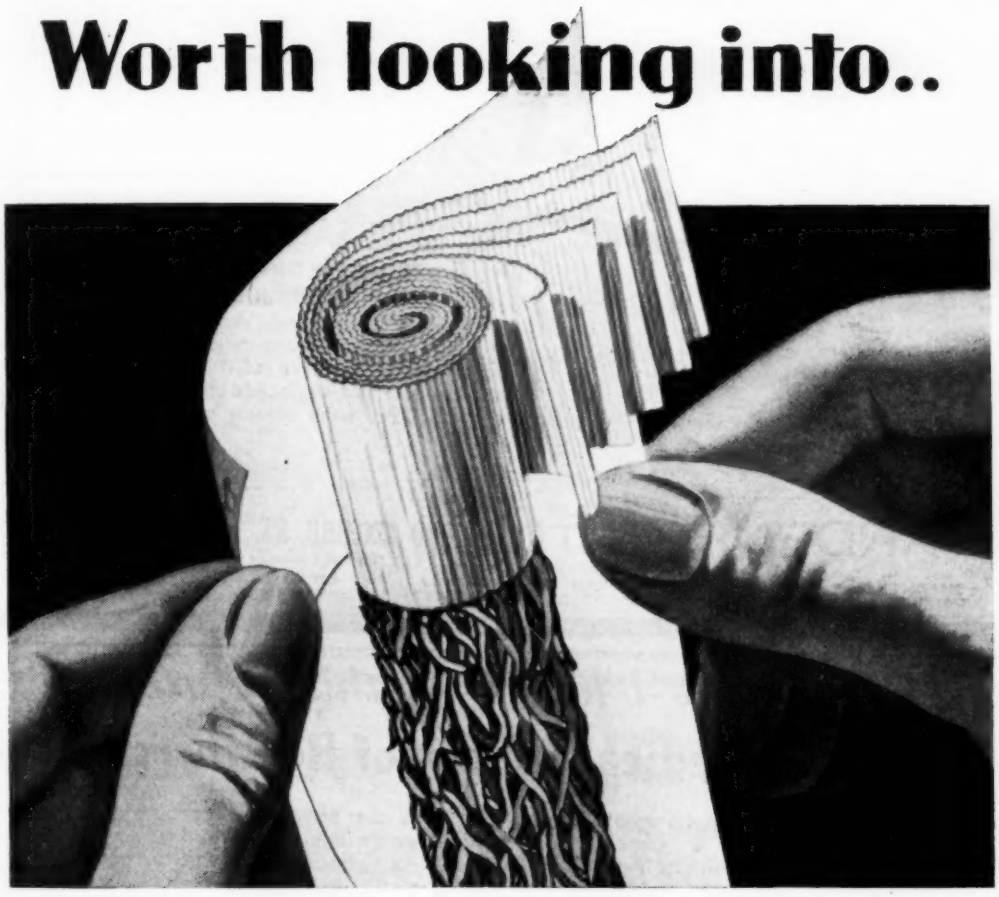

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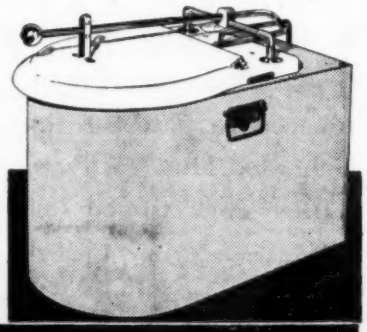

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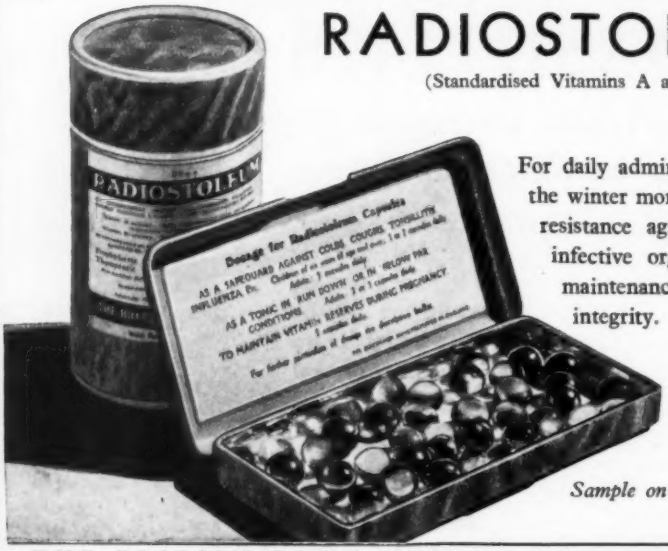

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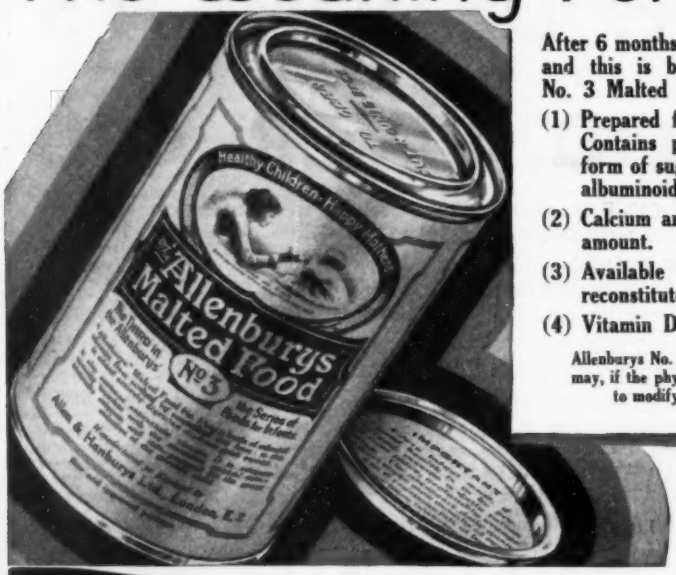

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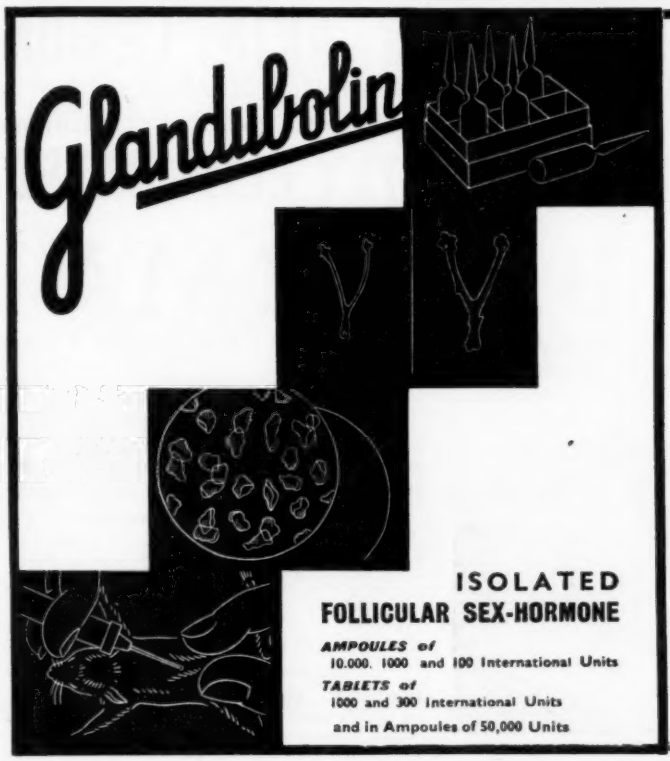

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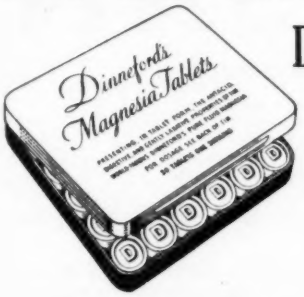

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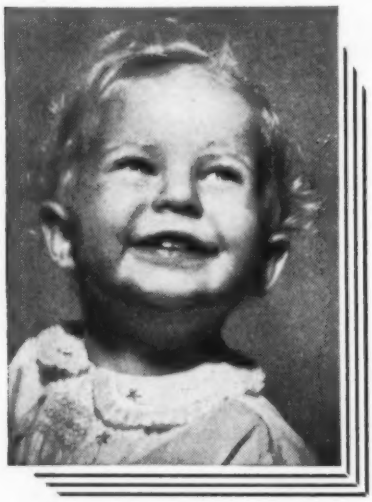

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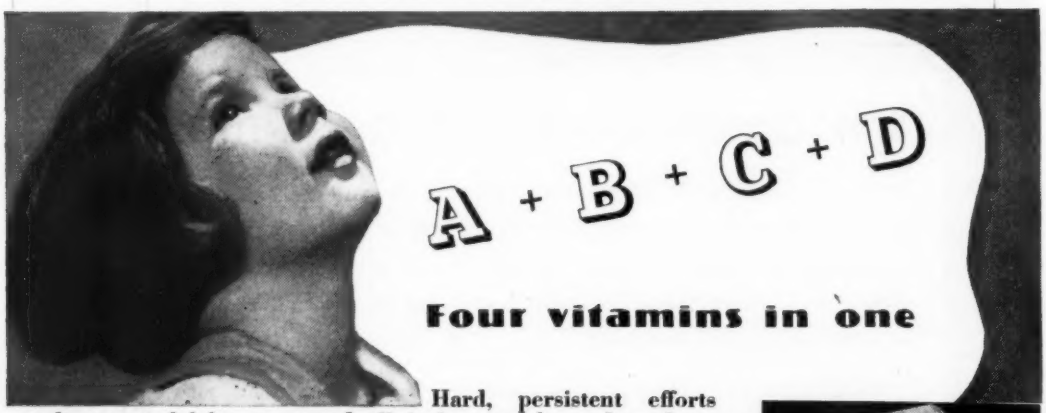

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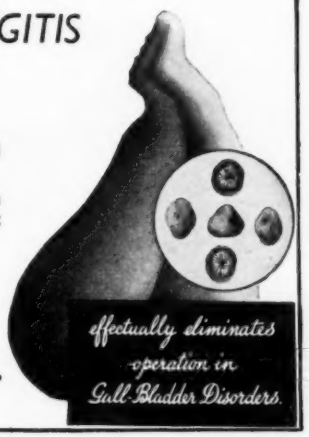
FRANCIS RIDDELL LIMITED,
AXTELL HOUSE, WARWICK ST., REGENT ST.,
LONDON, W.1.



SERENOL

biological non-toxic

SEDATIVE

Formula

Campho Sulphonate of sparteine	6.0	grams
Campho Sulphonate of ephedrine	2.5	,,
Extract of boldo	10.0	,,
Extract of crataegus	20.0	,,
Extract of salvia	10.0	,,
Tincture of marrubium	10.0	,,
Glycerine extract of thyroid (1 equals 1 of fresh gland)	0.10	,,
Valerian	50.0	,,
Hexamethylene-tetramine	10.0	,,
Excipient q.s.	ad 1,000	c.c.

PRICE - 4/6 per 4 oz. bottle.
Sample and Literature on request.

Serenol is a sedative with action on the centres of the nervous vegetative system, sympathetic and parasympathetic, and on the cortical centres. Recent knowledge has shown the interaction of nervous vegetative system and endocrine system, and on this knowledge SERENOL is based. It is thus a biological, not a symptomatic, sedative, and, unlike many other sedatives, has not a direct depressant action on the cortical cerebral centres.

Serenol is indicated in conditions of anxiety and general irritability, insomnia, hyperthyroidism, hyperadrenalism (as in neurocirculatory asthenia, effort syndrome), the so-called nervous palpitations of the heart, etc.

Serenol is given in the following dosage. For mild cases one to two dessertspoonsful on retiring. For more severe cases one dessertspoonful at 10 a.m., one dessertspoonful at 4 p.m. and two dessertspoonsful on retiring.

Serenol, being a biological sedative containing no barbiturate, is not habit forming.

CONTINENTAL LABORATORIES LTD. 30 MARSHAM STREET, LONDON, S.W.1

CAPROKOL

In the Treatment of Urinary Infections

Following its oral administration, 'Caprokol' is absorbed through the walls of the intestines into the blood stream and is carried to the kidneys, being excreted eventually unimpaired in germicidal activity. During its passage through the urinary system 'Caprokol' exerts an analgesic effect (which makes this form of treatment particularly acceptable to the patient) and at the same time it renders sterile the whole of the urinary tract.

'Caprokol' is administered as a matter of routine in the treatment of acute infections of the urinary tract such as cystitis, pyelitis, prostatitis and urethritis.

IN CAPSULES AND IN SOLUTION

Sole Selling Agents

THE BRITISH DRUG HOUSES LIMITED

and

SHARP & DOHME LIMITED
LONDON

Cap/108

TRADE **STOVARSOL** MARK

VAGINAL COMPOUND

(S.V.C.)

For the treatment of the vaginitis due to Trichomonas vaginalis, as well as for persistent leucorrhoea of long standing.

The tablets disintegrate readily and completely in the vagina.

Bottles of 25 Tablets.

Samples and literature will be sent on request

PHARMACEUTICAL SPECIALITIES (MAY & BAKER) LIMITED, DAGENHAM

Gastritis

Sanatogen is a *chemical combination* of ninety-five per cent. concentrated milk casein and five per cent. sodium glycerophosphate, which can be easily digested and absorbed even in cases of enteritis. Moreover, it stimulates a better utilisation of whatever ordinary food can be taken.

"*I had a female patient age 43 who was always rather below weight and nervy. She suffered severely from acute Gastritis following mild food poisoning and progressed slowly. She was put on carefully chosen soft foods, rest in bed, sedatives and Sanatogen, commencing with one teaspoonful three times daily. The last dose was taken half an hour before settling down for the night. She certainly improved. The stomach could receive and retain, with comfort, more food, and the nervous symptoms showed marked improvement, especially regarding sleep and general interest in life.*"—L.R.C.P. & S.

SANATOGEN

A Genatosan Product for effective action

★

Samples and literature available on request to

GENATOSAN LIMITED
LOUGHBOROUGH LEICESTERSHIRE

For Rectal and Anal Disorders

WHATEVER be the underlying cause of rectal or anal disease, logical medical treatment includes measures for rendering the motions as soft and unirritating as possible. Even after operation this holds good, since the area must be protected against irritation.

" Cristolax " provides an eminently satisfactory lubricant which can be applied with benefit in such conditions. Apart from ensuring soft, easy stools, its bland nature soothes and protects inflamed surfaces, tends to relieve congestion and effectively assists in healing.

" Cristolax " presents pure medicinal paraffin of optimum viscosity in elegant combination with " Wander " Dry Malt Extract. Being entirely free from any oily or disagreeable taste it is easy to administer and its use does not give rise to the unpleasant symptom of " leakage."

'CRISTOLAX'

BRAND

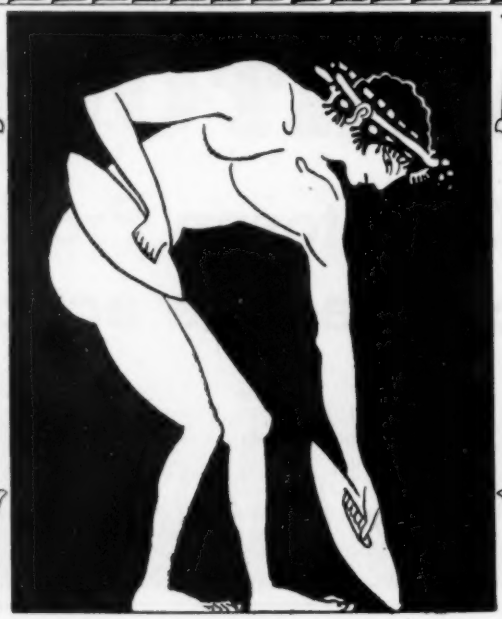
MALT EXTRACT WITH PARAFFIN

Lubricant-Laxative-Nutrient-Digestive

A liberal supply for clinical trial sent free on request.

A. WANDER LTD., 184 Queen's Gate, London, S.W.7.

Laboratories and Works: King's Langley, Herts.



Design from Greek Vase.
A wreathed Athlete bending to lift Jumping Weights from the ground.

M.260

GLANOID

CONCENTRATED FLUID EXTRACT

OF

LIVER

IN THOSE CASES OF **PERNICIOUS ANÆMIA** WHERE FLUID EXTRACT OF LIVER IS REQUIRED, 'GLANOID' CONCENTRATED FLUID EXTRACT OF LIVER REPRESENTS THE HIGHEST STANDARD OF QUALITY AND RELIABILITY AND IS THE PREPARATION OF CHOICE.

1 OZ. OF THE EXTRACT IS EQUIVALENT TO ½ LB. OF FRESH LIVER.

Send for literature and professional sample to :

THE
Armour Laboratories
(ARMOUR AND COMPANY LTD.)
ARMOUR HOUSE · ST. MARTIN'S-LE-GRAND · LONDON · E·C·1

Telephone: NATIONAL 2424 **Telegrams: "ARMOSATA-CENT" LONDON**

GONAD STIMULATION THERAPY IN MENSTRUAL DISORDERS

ANTOSTAB

Supplied in boxes containing ampoules of 100 mouse units, together with ampoules containing 1 c.c. of 0.90% Sodium Chloride Solution as a solvent for Antostab. Single ampoules and boxes of 6 ampoules.

ANTOSTAB is prepared from pregnant mares' serum and contains the follicle-stimulating factor which has a definite effect on the ovaries and in producing endometrial proliferation.

Clinical reports published in the *British Medical Journal*, 1937, November 6th, page 904, show that in cases of amenorrhoea, the menstrual cycle may be re-established by treatment with Antostab and that following treatment the menstrual rhythm continues normally.

PHYSOSTAB

Supplied in boxes containing ampoules of 100 mouse units, together with ampoules containing 1 c.c. of 0.90% Sodium Chloride Solution as a solvent for Physostab. Single ampoules and boxes of 6 ampoules.

PHYSOSTAB is prepared from human pregnancy urine and contains the luteinising hormone.

It is of value during the second half of the menstrual cycle when it stimulates the production of corpora lutea.

Successful results have been obtained with Physostab in the treatment of undescended testicles and of dystrophia adiposogenitalis.

LITERATURE SENT ON REQUEST

WHOLESALE & EXPORT DEPT.

BOOTS PURE DRUG CO. LTD.

NOTTINGHAM • ENGLAND

High Blood Pressure, Metabolic Disorders and Anaemia constitute a "tripod" of modern Disease

By dilating the peripheral blood vessels, Dr. Buergi's preparation of chlorophyll ('Phyllosan' tablets) becomes a therapeutic weapon in the treatment of high blood pressure. As it also *augments the force of the heart beat*, the circulation is adequately maintained.

By stimulating the metabolic exchanges, Dr. Buergi's preparation exercises a *revitalizing* effect upon the human organism. The lay expression "*vitality*" has received a technical re-christening in the term "*metabolism*." To speed up the latter is to renew the former. Bodily sluggishness and mental retardation are nowadays linked up with low basic metabolic rates — as, for example, in myxœdematous states.

Finally, by reason of its chemical affinities to hæmoglobin and its "catalyst" action, chlorophyll is able to *stimulate the blood-forming apparatus*. The indications for the use of 'Phyllosan' tablets in anæmic conditions are soundly rooted in laboratory tests and have been confirmed in the clinic.

Rentz (Upsala University): "Some investigations into the Pharmacological properties of Chlorophyll."
Fuller: "Anæmia, its Causes and Modern Treatment" (Lewis).

A PAMPHLET ★

Hyperpiesia, Metabolic Disorders and the Anaemias

Recent Advances in Medical Practice

A review of the experimental and clinical evidence for the use of

'PHYLLOSAN' Regd.

BRAND OF CHLOROPHYLL TABLETS

in Modern Therapeutics

★ Members of the medical profession are invited to write for a free copy of this publication and a trial supply of 'Phyllosan' tablets

NATURAL CHEMICALS LTD., 12 CLIPSTONE STREET, LONDON, W.1

The registered trade mark 'Phyllosan' is the property of and denotes the products of Natural Chemicals Ltd., London

IMPROVEMENT IN TRANSFUSION PRACTICE

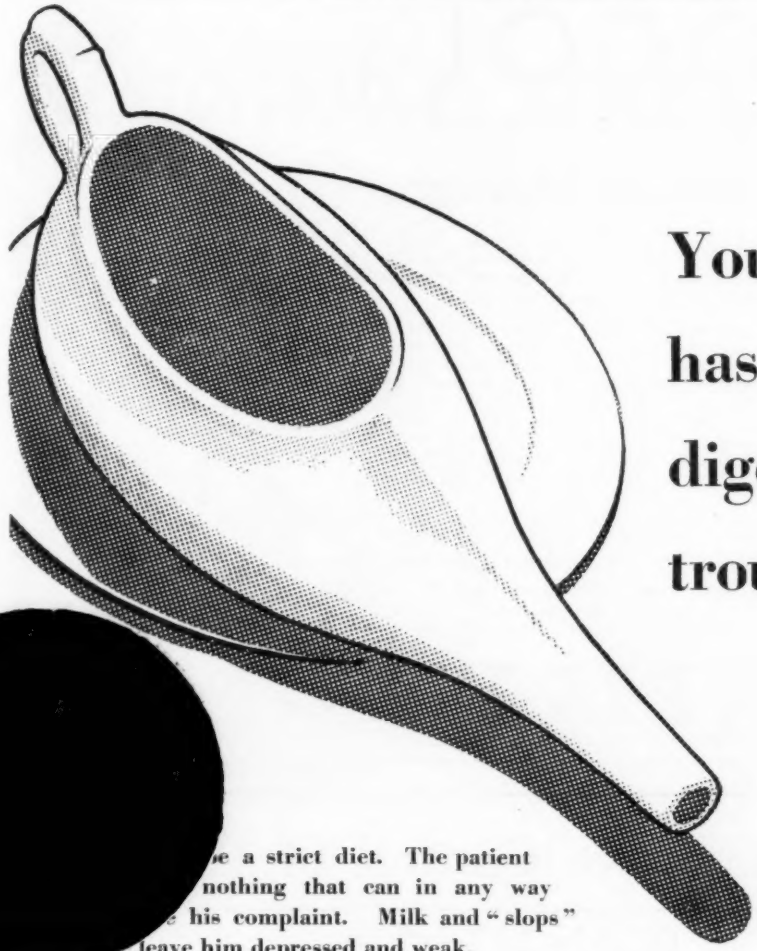
STERILE SOLUTIONS

Ready for use in 5 minutes

The greatest revolution in transfusion technique of modern times. The Collosol Transfusion solutions (21 Standard solutions are now available) supplied in the patent apparatus shown, or porcelain stoppered bottles, are always at hand and actually ready for use in five minutes. Full information is given in a new booklet "Contemporary Transfusion Practice" which will be forwarded upon request.

The Collosol TRANSFUSION AMPOULE

THE CROOKES LABORATORIES
(British Colloids Ltd.)
PARK ROYAL LONDON N.W.10
Telephone: Willesden 6313 (3 lines). Telegrams: Collosols, Harles, London.



Your patient has acute digestive trouble

e a strict diet. The patient
nothing that can in any way
his complaint. Milk and "slops"
leave him depressed and weak.

When the digestion must be kept at rest, the unique stimulating properties of Brand's Essence are never contra-indicated. Brand's contains no meat fibre or any other irritant matter—precipitates no solids in stomach or intestines and is easily and quickly assimilated.

A copious flow of gastric juice is stimulated, but the acid is competently controlled at all times through adsorption by proteins. The Essence can safely be administered even in cases of gastric ulcer. Strength is maintained chiefly through Brand's protein-sparing action.

BRAND'S CHICKEN OR BEEF ESSENCE

is never contra-indicated

BRAND & CO. LTD., SOUTH LAMBETH ROAD, LONDON, S.W.8

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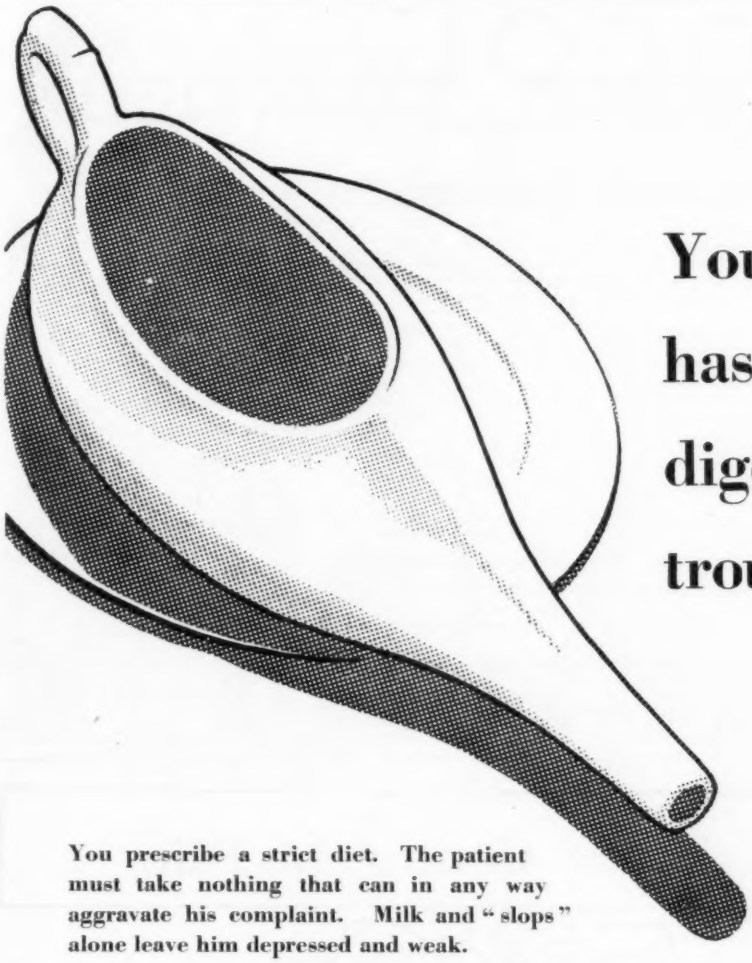

Your patient has acute digestive trouble

You prescribe a strict diet. The patient must take nothing that can in any way aggravate his complaint. Milk and "slops" alone leave him depressed and weak.

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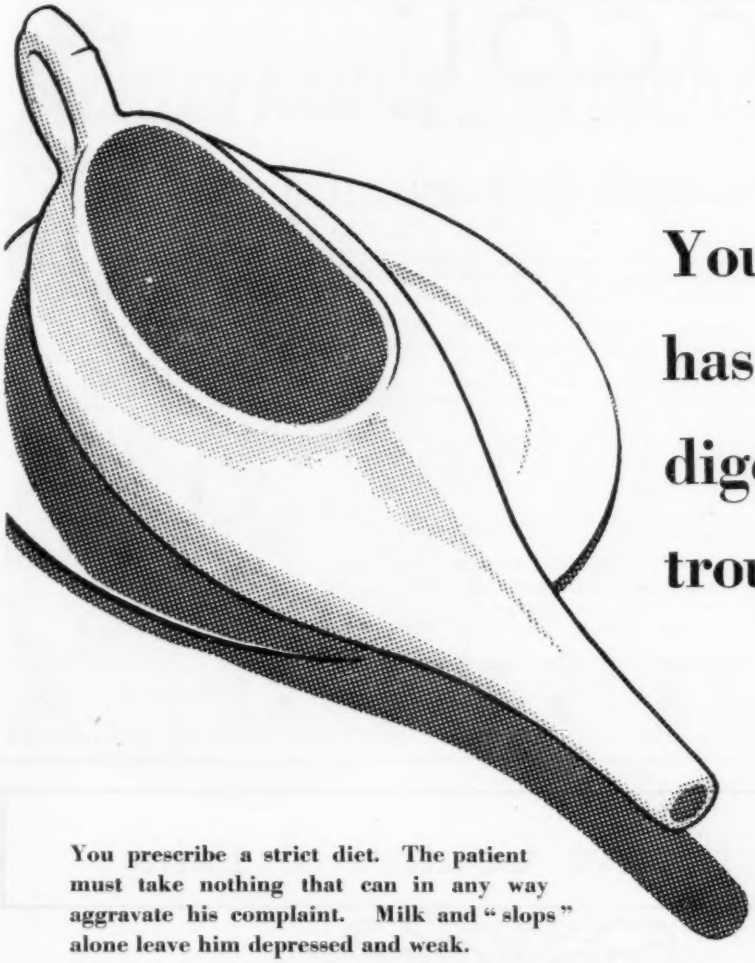

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BRAND'S CHICKEN OR BEEF ESSENCE

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BRAND & CO. LTD., SOUTH LAMBETH ROAD, LONDON, S.W.8

"ALOCOL"

Colloidal Hydroxide of Aluminium

Rational Antacid Therapy

APART from those cases due to actual organic disease, the treatment of the syndrome of symptoms known as indigestion, generally resolves itself into an attempt to overcome hypersecretion of acid and to soothe the irritated or inflamed gastric mucosa.

That "Alocol" possesses intrinsic qualities which render it particularly valuable as a gastric sedative and antacid is now well established. Its freedom from the constipating effect of bismuth, the laxative action of magnesium salts and the gas-forming properties of sodium bicarbonate are especially noteworthy.

"Alocol" forms with the gastric contents a colloidal jelly which has the power of adsorbing free hydrochloric acid. Its markedly soothing effect on the gastric mucosa promptly relieves pain and discomfort. It does not interfere with the normal process of digestion and is free from the danger of "alkalosis."

Indian. Saraswati playing the Vina. (12th Century.)

Complete chemical history of "Alocol," with convincing clinical reports and supply for trial, sent free to physicians on request.

A. WANDER, LTD., Manufacturing Chemists,
184, Queen's Gate, London, S.W.7.
Works and Laboratories:
KING'S LANGLEY, HERTFORDSHIRE.

M256

For Effective Control of Pain

AMONG the many and diverse analgesics which have been evolved by modern chemical research, acetyl-salicylic acid retains its reputation as one of the safest and most effective. Its tendency to liberate salicylic acid—the irritant properties of which are well known to physicians—has, however, caused many to hesitate to employ it as widely as it deserves. Exhaustive trial in hospital and private practice proves that "Alasil" definitely solves the problem of administering acetyl-salicylic acid in an effective form, being free from the risk of irritating the stomach or bowels or of causing general reactions.

In "Alasil" the desirable therapeutic effects of acetyl-salicylic acid are well exhibited by its calcium acetyl-salicylate moiety, while the presence of "Alocol" (Colloidal Hydroxide of Aluminium), a powerful gastric sedative and antacid, obviates any tendency to gastric irritation. The superior absorbability of "Alasil" over ordinary salicylate compounds and its freedom from the risk of liberating free salicylic acid in the stomach have been well proved by careful experimentation. "Alasil" can be prescribed with perfect safety to patients of all ages and in larger doses than ordinary salicylate compounds.

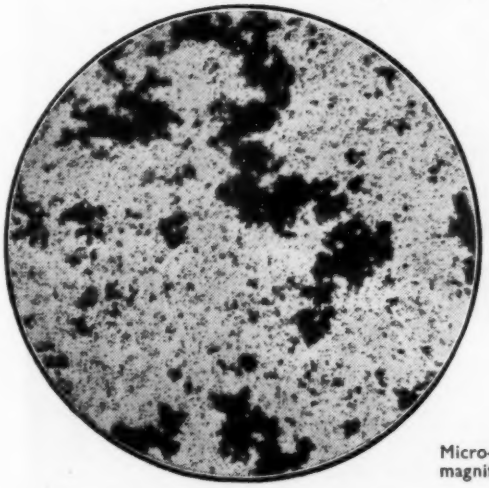
A supply for clinical trial with full descriptive literature sent free on request.

A. WANDER, LTD., Manufacturing Chemists,
184, Queen's Gate, London, S.W.7
Laboratories and Works: KING'S LANGLEY, HERTS.

ALASIL

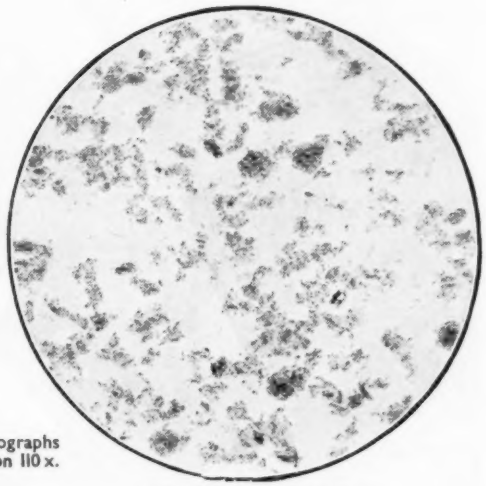
M269

Remarkable evidence of the minute sub-division of 'BiSoDoL'



An antacid powder compounded by ordinary methods.

Micro-photographs magnification 110 x.



'BiSoDoL' reduced to fine sub-division by special processes in compounding.

Comparison shows a remarkable distinction in the state of sub-division between an ordinary antacid powder and 'BiSoDoL.'

'BiSoDoL' is composed of Bismuth Subnitrate, Magnesium Carbonate, Sodium Bicarbonate, Papain, Diastase and Peppermint Oil, compounded by a special process. It conforms to the most recent demands of modern gastro-intestinal therapy.

'BiSoDoL' can be recommended with confidence in all conditions involving hyperacidity.

Samples for clinical trial will gladly be sent on request.

BiSoDoL

REGD.

BISODOL LTD., 12 CHENIES STREET, LONDON, W.C.1. Tel.: MUSEUM 9024

'PLASTULES' FOR ANÆMIA

Small dosage, easy assimilation, and excellent results are all characteristics of 'Plastules' brand Hæmatinic Compound. The suggested daily dose of only three 'Plastules' Plain is usually sufficient to induce an early response in cases of secondary anæmia. 'Plastules' obviate the necessity of massive iron feedings ensure the co-operation of the patient and provide an economical form of iron medication. . . . Doctors are invited to write for samples and literature on 'Plastules' brand Hæmatinic Compound Plain and 'Plastules' with Liver Extract.

JOHN WYETH & BROTHER LIMITED, 25, OLDHILL PLACE, LONDON, N. 16.

The "Malnutrition" controversy

"Ordinary mixed diet" unreliable as a source of Vitamin B_1

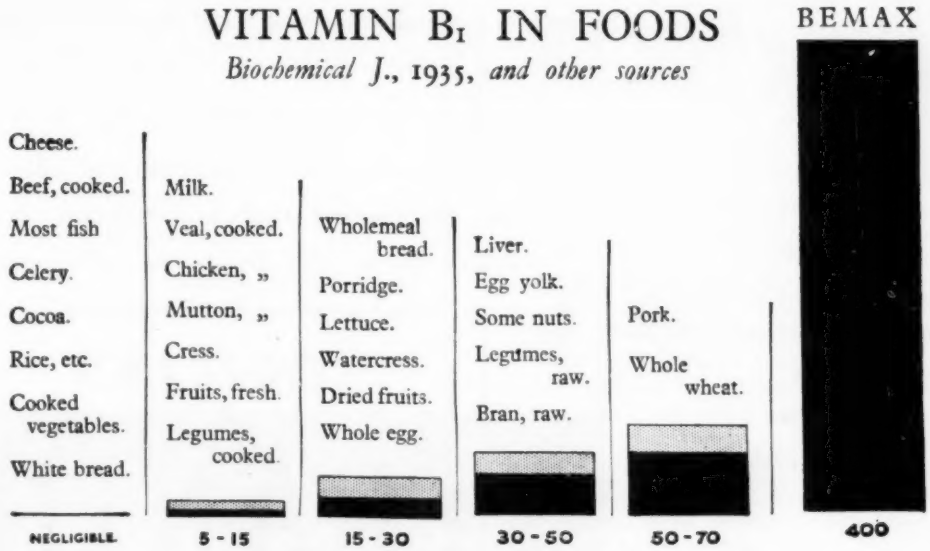
An editorial statement in the B.M.J., 16th Oct, 1937, page 753, that "Vitamin B_1 deficiency [is] an outstanding fault in the diet of many millions of people" gives added weight to the result of a large scale investigation in which 90.1% out of 2,000 patients showed improvement in health when their diets were supplemented with Bemax.

> In Constipation 88.8%; in Anorexia 80.0%; in Malnutrition 78.4%; in Colitis 79.5%; in Indigestion 82.5%; in Intestinal Toxemia 80.6%; in Asthenia 87.3% showed improvement. *Of supposedly normal subjects, mostly physicians themselves or members of their families, 86.4% showed definite benefit in health from the use of Bemax.*

It is impossible to escape the conclusion that chronic Vitamin B_1 deficiency is a frequent but often unrecognised cause of these conditions; even in supposedly normal health it may be present, but not suspected until the benefit from a higher Vitamin B_1 intake is observed.

VITAMIN B_1 IN FOODS

Biochemical J., 1935, and other sources



The figures represent International Units per ounce.

Laboratory reports on Bemax, and a clinical sample for personal trial sent on request.

The Bemax Laboratories, (Dept. L.49), 23, Upper Mall, London, W.6.

THE PATIENT'S INSISTENT NEED

Pain is the dominant symptom which induces the majority of patients to seek medical aid; hence the practitioner's reputation depends in no small degree upon his skill in relieving pain. For this he cannot have a more reliable ally than Veganin.

Veganin presents a synergistic combination of acetylsalicylic acid, phenacetin and codeine and is considered one of the safest analgesics. It is quickly absorbed and its action is prompt and prolonged.

Veganin affords effective relief in a vast number of painful conditions and alleviates the nervousness that so frequently accompanies them. There is no aftermath of languor and no systemic disturbance.

INDICATIONS—

Veganin has proved particularly serviceable in the treatment of headaches, migraine, rheumatic affections, post-operative and post-puerperal pain, in the backache and muscular pains of influenza.

•

Veganin Tablets are not advertised to the public.

•

Supplied in tubes of 10 *and* 20 *: boxes of* 100, 500 *and* 1,000 *for dispensing.*

•

A supply for clinical trial sent on request.

WILLIAM R. WARNER & CO., LTD.
POWER ROAD · CHISWICK
LONDON · · · · · W.4

VEGANIN
BRAND TABLETS
Made in England

The Modern Point of View

"... so long as patients with subnormal temperature, low vitality and other evidences of depressed metabolic activity are re-animated after a course of treatment with glycerophosphates, just so long will physicians continue to prescribe them." *Pharmaco-Therapeutics*; D. Appleton & Co.

NEURO PHOSPHATES

(ESKAY BRAND)

The ideal presentation of the glycerophosphates is Neuro Phosphates (Eskay Brand). Each dose (two teaspoonfuls) contains in acid state: Sodium Glycerophosphate, 2 grs.; Calcium Glycerophosphate, 2 grs.; and Strychnine Glycerophosphate, 1/64 gr.

PHYSICIAN'S SAMPLE ON REQUEST

Distributed by

Menley & James, Ltd., 64, Hatton Garden, London, E.C.1

for Smith, Kline & French Laboratories, owners of the Trade Mark

In Resistant Cases

In resistant cases of arthritis an increasing number of physicians report unusual success with 'Calsiod' (calcium ortho-iodoxybenzoate) after stepping up the dosage considerably.

If you yourself have encountered any particularly unresponsive cases, may we remind you that the dose of 'Calsiod' can be increased according to the tolerance of the patient?

Physician's sample and literature on request

CALSIOD

BRAND

TABLETS

Distributed by

MENLEY & JAMES, LTD.

64, HATTON GARDEN, LONDON

for Smith, Kline & French Laboratories, owners of the Registered Trade Mark, 'Calsiod'

IODINE OINTMENT

"IODEX"

BRAND

This ideal presentation of iodine is even more active than the Tincture, has greater inflammation-reducing, resolvent, and antiseptic properties, yet is entirely bland and non-staining, and it conserves unimpaired the vital qualities of the skin. "Iodex" can therefore be applied with perfect confidence wherever an iodine ointment can be of service, even upon mucous surfaces.

Method of Application.—Wherever possible, the ointment should be gently rubbed into the skin until its colour disappears. Where rubbing is inadmissible, it may be liberally applied under a light, loose bandage. Tight and air-excluding bandages should never be employed.

MENLEY & JAMES, LTD., 64, Hatton Garden, London

At the first suspicion of Pneumonia

TYPE IT!

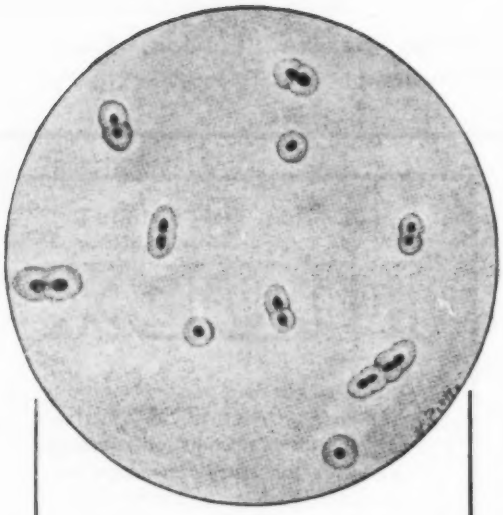
Lederle

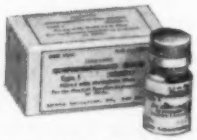
PNEUMONIAS OF DIFFERENT ETIOLOGY are distinct diseases. Early specific treatment —so vital to successful serum therapy—is possible only when the type of pneumococcus is determined immediately.

The Neufeld method, for pneumococcus typing directly from sputum, is simple, accurate, and permits of a diagnosis being made within a few minutes' time.

Rabbit Typing Sera are supplied in 0·5 cc. vials for monovalent Types I to XXXII (except Types XXVI and XXX, which apparently are identical with Types VI and XV, respectively), and for the following combinations—

Mixture "A", containing Types I, II, and VII
Mixture "B", containing Types III, IV, V, VI, and VIII
Mixture "C", containing Types IX, XII, XIV, XV, and XVII
Mixture "D", containing Types X, XI, XIII, XX, XXII, and XXIV
Mixture "E", containing Types XVI, XVIII, XIX, XXI, and XXVIII
Mixture "F", containing Types XXIII, XXV, XXVII, XXIX, XXXI, and XXXII





DIAGNOSTIC ANTIPNEUMOCOCCIC SERA
Lederle
FOR TYPES I TO XXXII

Send for Booklet—
"For the treatment of Type 1 and Type 2 Pneumonias—Antipneumococcic Sera"

Chas. F. Thackray LTD

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252 Regent Street LONDON W I
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Agents for Eire WILCOX JOZEAU & CO 19 Temple Bar Dublin

Eschatin

Suprarenal Cortex Extract

P., D. & Co.

Eschatin is a solution of the suprarenal cortex hormone manufactured by Parke, Davis & Company in collaboration with the originators, Swingle and Pfiffner. It is assayed on bilaterally adrenalectomized dogs and standardized to contain 25 dog units per c.c.

Primarily indicated for the treatment of Addison's disease Eschatin has proved of value in pernicious vomiting of pregnancy, asthma, adrenal insufficiency, shock due to extensive burns, and in the treatment of pulmonary tuberculosis, diphtheria, scarlet fever, influenza and typhoid fever.

Eschatin is supplied in bottles of 10 c.c.

Parke, Davis & Co., 50 Beak St., London, W.1

Laboratories: Hounslow, Middlesex *Inc. U.S.A., Liability Ltd.*

In comparative studies made under properly controlled conditions, Metaphen has been shown to be from 8.6 to 1,500 times more germicidal against *staphylococcus aureus* than five other commonly employed antiseptics, including mercuric chloride and tincture of iodine. Against other common pathogenic organisms, Metaphen also demonstrated its marked superiority over all of the drugs tested. • Furthermore, Metaphen was found to be 10% more effective for surface skin disinfection and 87% more effective for deep skin disinfection than tincture of iodine. (*Annals of Surg.*, *93*:587-597.) • In addition to its great bactericidal power, Metaphen has other important advantages. It is non-toxic and non-irritating; does not coagulate serum or tissue albumins; penetrates rapidly; and its solutions are stable when exposed to air. • Metaphen is supplied through pharmacies in a variety of useful forms, the most widely employed of which are: TINCTURE METAPHEN 1:300, a tinted, alcohol-acetone-aqueous solution prepared especially for use as a pre-operative skin disinfectant; as well as for all other conditions for which an extremely powerful but safe antiseptic tincture is indicated. • METAPHEN SOLUTION 1:500 is recommended for general use wherever a powerful germicidal action is desirable. Requests for professional literature will be welcomed. The coupon is for your convenience.

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The dosage of Colliron

Adults—20 minims three times daily after meals, or for intensive treatment, one teaspoonful once or twice daily.

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Colliron is issued in bottles:

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● The general action of 'Bynin' Amara is manifested by increased tone of the nervous, muscular and cardio-vascular systems. It stimulates the digestive organs, improves the flagging appetite, corrects anæmia and aids nutrition generally.

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The entire product manufactured in England.

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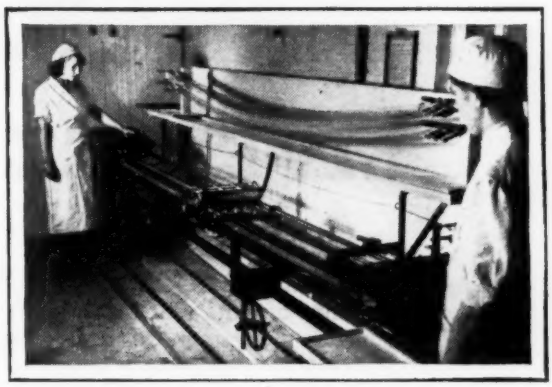

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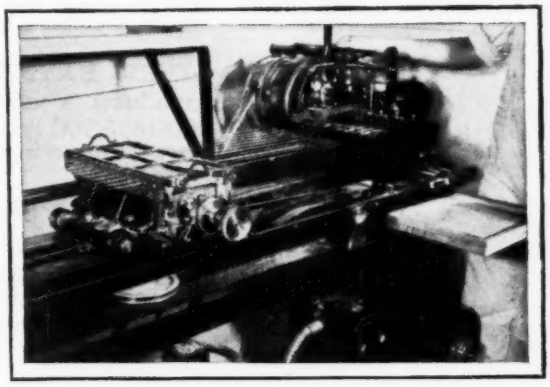

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● The marked asthenia and nervous depression which are prominent features of the post-influenzal state, yield rapidly to its influence. A course whenever there is any indication of lowered resistance is a valuable safeguard against infection.

In bottles at 2/-, 3/6, 6/6 and 12/-

Descriptive literature and clinical trial sample on application.

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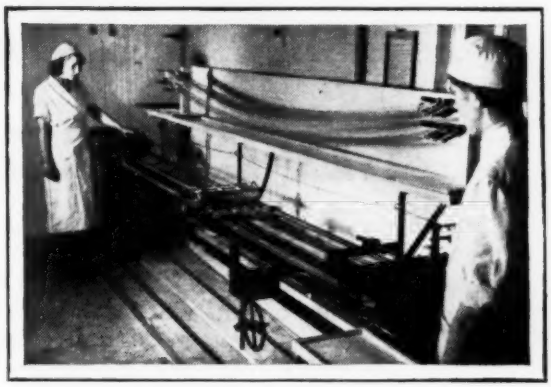

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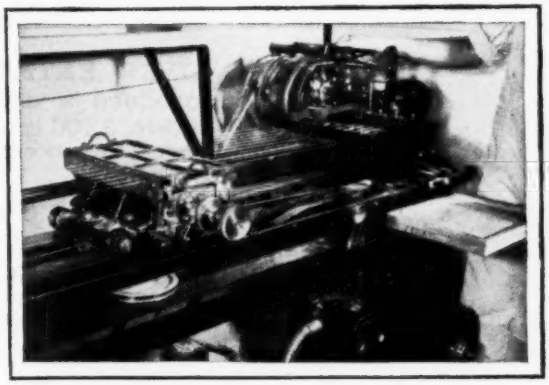

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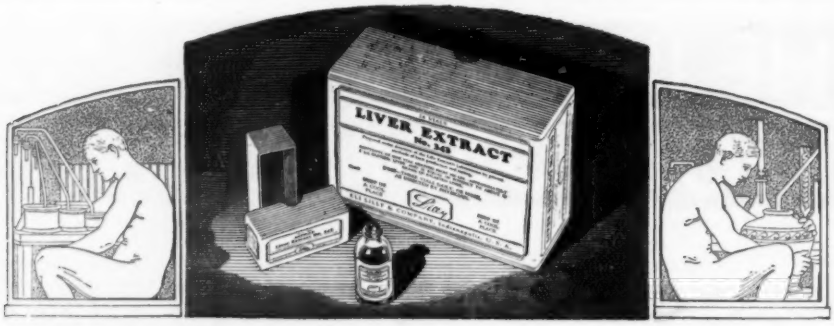

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9.6 ozs. of starch in 10 minutes.

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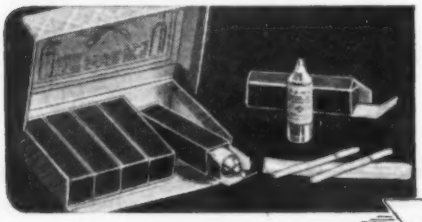

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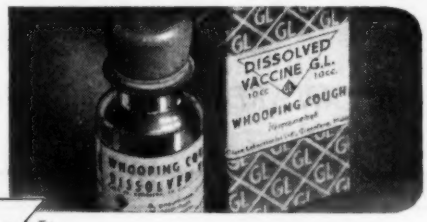
Of special significance, both in the prophylaxis and treatment of whooping cough, is the advance in vaccine therapy represented by Dissolved Vaccines G.L.—in which the antigens are in solution and detoxicated. Thus (1) when injected, an immediate antibody response can be produced; (2) high doses can be administered without risk of undesirable reaction. In rubber-capped bottles, 5 cc., 10/9; 10 cc., 15/6; 25 cc., 25/-.



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Above prices (not in Eire) are subject to usual professional discount.

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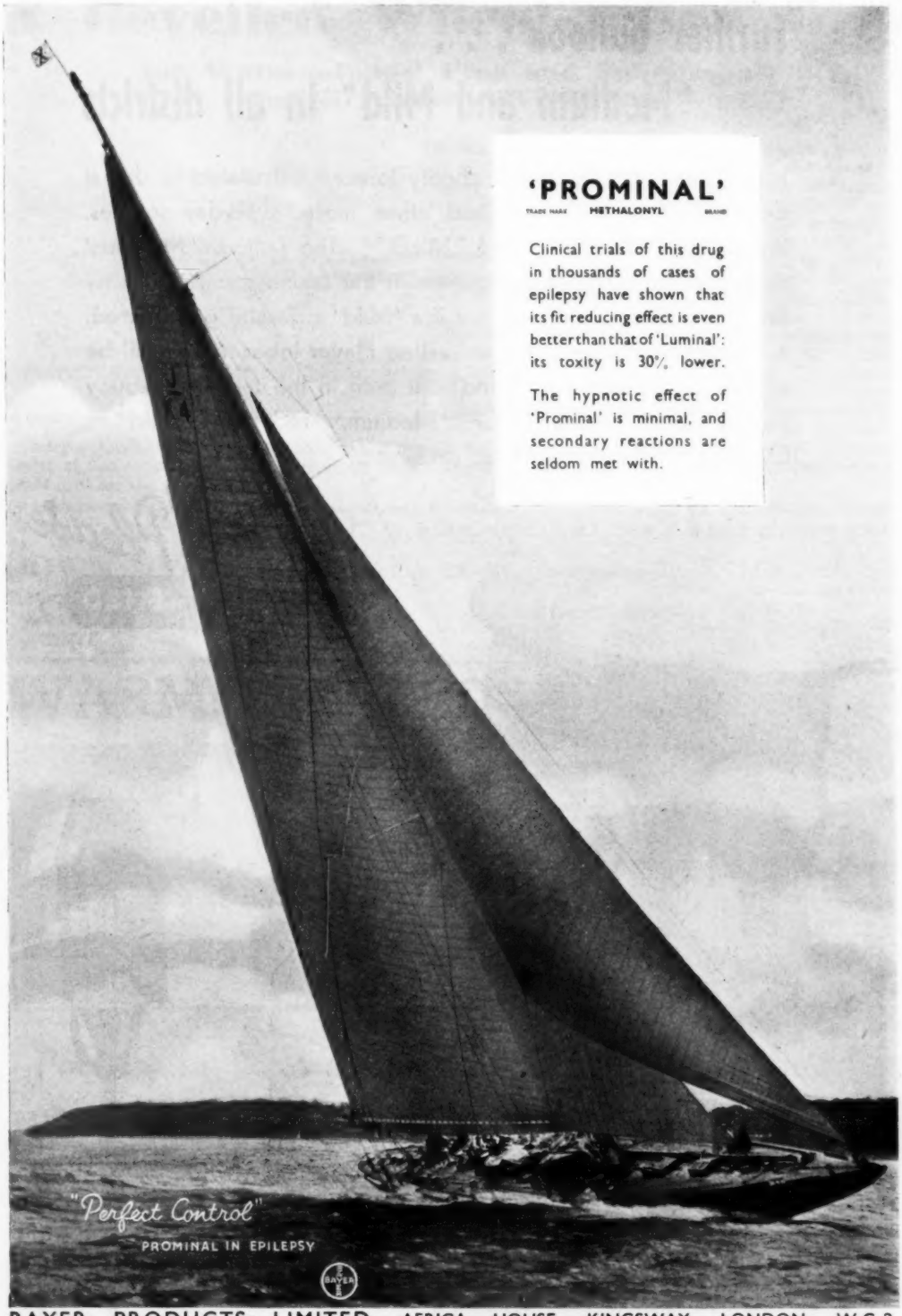

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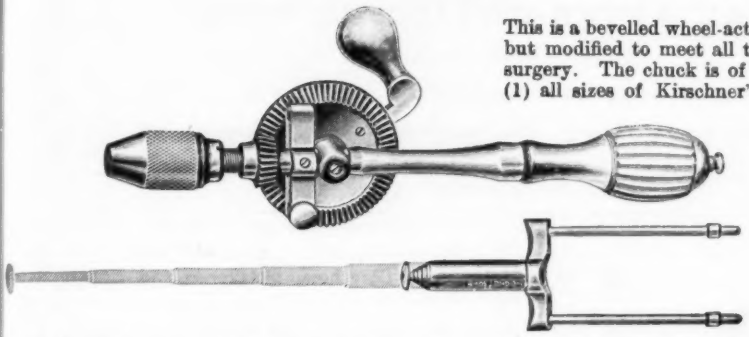
"Medium and Mild" in all districts

Hardly strict B.B.C., but a cheery forecast calculated to defeat depressions from Iceland, and other more everyday sources. But notice "MEDIUM" and "MILD." The famous 'Medium,' most popular 10 for 6d. cigarette in the country, suits perfectly the tastes of most smokers, but if a 'Mild' cigarette is preferred, it can still be Player's; the unrivalled Player tobacco can still be enjoyed. 'Medium' or 'Mild' are both in the familiar lifebuoy packet, blue lettering for 'Medium,' red for 'Mild'—CORK-TIPPED or PLAIN as preferred.

A Bevelled Wheel-action Drill

for Watson-Jones' Pins and Johansson's or Kirschner's Wires, etc.



This is a bevelled wheel-action drill of the usual surgical type, but modified to meet all the requirements of modern bone surgery. The chuck is of a type which will hold securely: (1) all sizes of Kirschner's wires from 0·75 mm. diameter upwards; (2) ordinary unmounted commercial type Morse's twist drills up to ½ in.; (3) drills, burs, &c., with standard ¼ in. surgical fitting; and (4) Watson-Jones' (or similar) guide pins for canalised tri-radiate nails, for fractures of femoral neck. This instrument dispenses with a multiplicity of chucks, and has the advantage that it can be sterilised by ordinary methods. The drill stock is hollow to accommodate Kirschner's wires, but the latter are best supported by means of the six-step collapsible telescope (which allows the maximum protrusion) which attaches to the instrument for this purpose.

My ideas have been carefully carried out by Messrs. Down Bros., Ltd., from whom the drill can be obtained.

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"LIVEROID" is a concentrated preparation of the uncoagulated juice of liver, in combination with other blood and nerve-forming substances. Usefully prescribed for:—

Pernicious anæmia and all forms of megalocytic anæmia characterised by high colour index.
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General debility, neurasthenia or weakness.

"LIVEROID" is pleasant to take, and can be given in the form of an appetising beverage.

Literature supplied on application: **In Bottles, 3/11 and 6/6**

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The Antiphlogistic Plaster is ready for immediate use, only requires heating by any form of fire or on a hot water bottle. No mess, wrapped in gauze which prevents "crumbs", can be removed and warmed up every few hours, or a hot water bottle can be applied to the Plaster. One Plaster can be used three nights running or continuously for 36 hours.

Composition. A chemical and physical combination of Bassiæ Parkii, the new Salicylic Ester (S.E.D.), Colloidal Kaolin, Glycerine, Pine Oils and Eucalyptus.
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FRIDAY, MARCH 11TH.

Candidates who have fulfilled the necessary conditions, and who desire to present themselves for Examination, must give notice in writing to the Secretary, Examination Hall, 8/11, Queen-square, London, W.C.1, at least twenty-one days before the date of the Examination, transmitting at the same time such certificates as may be required by the Regulations of the Board.

HORACE H. REW, Secretary.

Royal College of Physicians of London.

The next ordinary Professional Examination for the MEMBERSHIP will commence on WEDNESDAY, APRIL 6TH, 1938.

Candidates are requested to give twenty-one days' notice in writing to the Registrar of the College to whom all certificates and testimonials required by the Bye-laws must be sent at the same time.

Candidates who propose to submit published work under the regulations now in force are required to give twenty-eight days' notice, and should apply in writing to the Registrar, without delay, for detailed instructions as to the procedure they should follow. RAYMOND CRAWFURD, M.D., Registrar.

Pall Mall East, S.W.1.

BRITISH POSTGRADUATE MEDICAL SCHOOL

DEPARTMENT OF PATHOLOGY

A Laboratory Course on HÆMATOLOGY conducted by Dr. JANET VAUGHAN, D.M., M.R.C.P., will commence on 21st FEBRUARY, 1938.

A Laboratory Course on CHEMICAL PATHOLOGY conducted by Dr. EARL J. KING, M.A., Ph.D., will commence on 18th APRIL, 1938.

The Courses are whole-time and each will last for six weeks. Fee £9 9s. for each Course.

These Courses are part of the Course for the Diploma in Clinical Pathology and only a limited number of students can be accepted.

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For further particulars apply to the Secretary to the Medical School at the Royal London Ophthalmic Hospital, City Road, E.C.1, or to the Dean, CHARLES GOULDEN, O.B.E., M.D., M.Ch., F.R.C.S.

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Prospectus from the DEAN of the West London Hospital, Hammersmith, W.6.

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POST-GRADUATE COURSE IN VENEREAL DISEASES

LONDON COUNTY COUNCIL (WHITECHAPEL) CLINIC

TURNER STREET, E.1 (adjoining the London Hospital)

A Three Months' Course of Instruction in Modern Methods in the Diagnosis and Treatment of Venereal Diseases will be given by LIEUT.-COLONEL E. T. BURKE, D.S.O., the Director of the Clinic, during MARCH, APRIL, and MAY, 1938. Attendance at this course will qualify, subject to the other conditions in the Regulations of the Ministry of Health, for the Certificate enabling the possessor to hold the post of a Venereal Diseases Officer under the Council of a County or County Borough. The course will consist of twenty-five systematic lectures accompanied by lantern demonstrations on Mondays and Thursdays at 2.30 P.M., beginning on 28th February and ending on 26th May. Every Wednesday at 2 P.M. cases will be demonstrated. Those taking the course will also attend the practice of the Clinic in order to obtain tuition in intravenous injections, etc. During the three months 130 hours of attendance must be put in.

Those intending to take the course must send their names to the Director on or before 21st February, 1938. Fee £10 10s.

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CHILDREN'S DISEASES, suitable for D.C.H. (Princess Elizabeth of York Hospital, all day, February 14 to 19, and Infants Hospital, all day, February 21 to 26); MEDICINE, SURGERY and GYNÆCOLOGY (Royal Waterloo Hospital, all day, February 28 to March 12); HEART and LUNGS, week-end (London Chest Hospital, all day Saturday and Sunday, February 26 and 27); M.R.C.P. Clinical and Pathological (National Temperance Hospital, Tuesdays and Thursdays, 8 p.m., February 22 to March 10).

Apply FELLOWSHIP OF MEDICINE, 1, Wimpole-street, London, W.1. Langham 4266.

LONDON HOSPITAL MEDICAL COLLEGE

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Further particulars may be obtained from
Dr. A. E. CLARK-KENNEDY, M.D., F.R.C.P., Dean.
London Hospital Medical College, Turner-street, London, E.1.

University of Birmingham.

FACULTY OF MEDICINE.

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THREE LECTURES
ON
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On THURSDAYS, 17TH and 24TH FEBRUARY, 4 P.M.

(*b*) One Lecture by
Professor FRANCIS R. FRASER, M.A., M.D., F.R.C.P.
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Members of the Medical Profession and Students of Medicine are invited to attend.

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Telegrams: "Alleviated, London." **Telephone: Rodney 2641 and 2642.**

The above House, which was established in 1826, is an Institution for the care and treatment of persons suffering from mental diseases and nervous disorders. Certified, Voluntary and Temporary patients are received. Separate houses for treatment and accommodation of special cases adjoin the Institution. There is a seaside branch, Kearsney Court, near Dover, to which patients may be sent for treatment or on holiday. Motor and carriage exercise is provided as required. Patients can avail themselves of a course of physical drill. Tennis Courts. Entertainment, dances, and indoor amusements held throughout the year. Terms from £3 3s. per week. Illustrated prospectus and further particulars can be obtained from the MEDICAL SUPERINTENDENT.

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The Hospital is governed by a COMMITTEE, appointed by the TRUSTEES of the Manchester Royal Infirmary.

In addition to the Main Buildings there are separate villas. Extensive grounds. Hard and grass tennis courts, cricket and croquet grounds, and a court for badminton. There are also wireless installations. Golf may be had within easy distance. Occupational Therapy.

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Illustrated Brochure and particulars obtainable from A. E. CARVER, M.D., D.P.M., Resident Medical Superintendent

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FOR THE UPPER AND MIDDLE CLASSES ONLY.

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CLIFFDEN, TEIGNMOUTH, for Early and Convalescent Cases. A well-appointed house, with spacious balconies and extensive views of the South Devon Coast. Sub-tropical gardens. Own Dairy in 25 acres. Private road to beach.

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Ladies only received

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A High-class Home for the Curative Treatment of Nervous Affections. Voluntary Boarders are also received without certificates.

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HOSPITAL FOR MENTAL DISORDERS.

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This Registered Hospital for the Treatment and Care, at moderate charges, of Mental Patients belonging to the educated classes, stands in a healthy and pleasant situation on Headington Hill, near Oxford. Voluntary and Temporary Patients are also received for treatment. The adjacent estate of HIGHFIELD PARK has recently been acquired and the house, which has been modernised and equipped with every comfort, is now available for mild and convalescent patients. Private suites can be arranged.

For further particulars apply to the Physician-Superintendent.

BARNWOOD HOUSE, GLOUCESTER.

A REGISTERED HOSPITAL FOR THE CARE AND TREATMENT OF LADIES AND GENTLEMEN SUFFERING FROM NERVOUS AND MENTAL DISORDERS.

Within two miles of the G.W. Railway and L.M. & S. Railway Stations at Gloucester, the Hospital is easily accessible by rail from London and all parts of the United Kingdom. It is beautifully situated at the foot of the Cotswold Hills, and stands in its own grounds of over 280 acres. Voluntary Boarders of both Sexes are also received for treatment.

Special accommodation for Lady Voluntary Boarders is also provided at the MANOR HOUSE, which has its own private grounds and is entirely separate from the main Hospital.

For particulars as to terms, &c., apply to G. W. T. H. FLEMING, M.R.C.S., L.R.C.P., D.P.M., Medical Superintendent.

Telephone: No. 6207 Barnwood.

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Telephone: WATFORD 5917

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The house is situated high up, in 40 acres of beautiful grounds, 17 miles from London. One Lady Doctor is in residence, and another specialist in psychological medicine is in daily attendance. Fees from ten guineas a week, inclusive.

Apply: RESIDENT MEDICAL OFFICER.

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Telephone: PINNER 234.

A Private Hospital for the Treatment and Care of Mental and Nervous Illnesses in both Sexes.

A modern country house, 12 miles from Marble Arch, in attractive and secluded surroundings. Fees from 10 guineas per week inclusive. Cases under Certificate, Voluntary and Temporary Patients received for treatment.

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A PRIVATE HOME for the treatment of gentlemen suffering from Mental and Nervous illness, including the allied Disorders of Alcoholism and the Drug Habit. All types of early Mental and Nervous Cases are received without Certificates as Voluntary Boarders. Bracing hill country. See "Medical Directory," p. 2328.—Apply to Medical Superintendent. 'Phone 10 P.O., Church Stretton.

CITY OF LONDON MENTAL HOSPITAL

Near DARTFORD, KENT.

Ladies and Gentlemen received for treatment under certificates, and without certificates as either VOLUNTARY or TEMPORARY PATIENTS, at a weekly fee of TWO GUINEAS, and upwards.

HILL END HOSPITAL AND CLINIC

FOR THE PREVENTION AND TREATMENT OF MENTAL AND NERVOUS DISORDERS

(20 miles from London)

Ladies suffering from all forms of MENTAL ILLNESS are received for treatment, on modern lines, as Voluntary, Temporary or Certified Private Patients at the Hill End Hospital. Convalescent or mild cases can be treated in a delightful country mansion, with extensive grounds, known as

HIGHFIELD HALL,

situate about a mile away from the Hospital.

FEES TWO TO THREE GUINEAS PER WEEK.

For further particulars apply to the Medical Superintendent, W. J. T. KIMBER, L.R.C.P., D.P.M.

ST. ALBANS, HERTS

SPRINGFIELD HOUSE

'Phone: BEDFORD 3417. **Near BEDFORD**

For Mental Cases with or without Certificates.

Ordinary Terms: Five Guineas per week (including Separate Bedrooms for all suitable cases without extra charge).

For forms of admission, &c., apply to the Resident Physician, CEDRIC W. BOWER.

INTERVIEWS IN LONDON BY APPOINTMENT.

PENDYFFRYN HALL SANATORIUM

PENMAENMAWR, NORTH WALES.

All Modern Methods of Treatment Available.

Ideally situated for the treatment of Tuberculosis. Sheltered from E. & N.E. winds. Climate mild and bracing. Low rainfall, high average of sunshine. The Sanatorium is situated in its own park. There are miles of graduated walks through pine, gorse and heather, rising to 1,000 ft., and commanding extensive sea and mountain views. Central heating, electric light, X-ray installation. Wireless in all rooms. Full day and night nursing staff. Special milk supply from a tuberculin tested herd. Easily accessible from LONDON (4½ hours), MANCHESTER, LIVERPOOL, BIRMINGHAM and the North.

Resident Physicians: **Dennison Pickering, M.D.; S. A. Yaffe, M.D.**

For particulars apply to the Secretary, Pendyffryn Hall, Penmaenmawr, North Wales. 'Phone 20

LA METAIRIE

(Near Nyon, on the Leman, Switzerland) Tel.: Nyon 95,626.

Centre of Research and Medico-Psychological Treatments

Carefully discriminated and graduated treatments of all nervous and mental affections. Happy environment, magnificent country, temperate climate.

Pathopsychological Institute annexe (Pupillography, &c.). Villa for abnormal children.

Head Physician: Dr. W. BOVEN, Professor of Psychiatry and Characterology at the University of Lausanne. (Consultation-room at Lausanne, by appointment; Tel.: Lausanne 25,838.)

Collaborators: Dr. O. Löwenstein, formerly Professor at the University of Bonn, inventor of the pupillographic method. Madame Dr. Calame.

HARROGATE

FOR HEALTH

Harrogate specialises in the Treatment of—Disorders of the Liver—congestion, cirrhosis, jaundice, cholecystitis, cholelithiasis, and tropical liver. Also in Diseases of the Skin—eczema, psoriasis, the coccal infections of the skin, etc. The Chronic Rheumatic Diseases—Arthritis, Fibrositis, Neuritis; Gout, Hyperpiesis, Mucous Colitis, Functional Disorders of the Heart, Pelvic Disorders of Women, Convalescence from acute illness.

A wide range of Sulphur and Iron waters is available for dealing with the large group of disorders amenable to Spa treatment. Prescribed diets for Spa patients can be obtained at hotels and boarding houses without extra charge. **Complimentary and reduced price facilities for the Cure, Accommodation and Amusements are available for Members of the Medical Profession.**

Full details of Harrogate for Cure and Holiday will be sent free upon application to Spa Manager, Information Bureau, Harrogate, 2, (state if a medical enquiry).

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"IT'S QUICKER BY RAIL"

Cheap monthly return tickets to Harrogate from all stations. Any train, any day.

HOME for EPILEPTICS, MAGHULL

(Near Liverpool)

FARMING and OPEN AIR OCCUPATION for PATIENTS

A few vacancies in 1st and 2nd Class Houses.

FEES:
1st Class (men only) from £3 p.w. upwards.
2nd Class (men and women) 32/- p.w.

For further particulars apply **Secretary,**

C. EDGAR GRISEWOOD, A.C.A., 20, Exchange St. East, Liverpool.

OLD HILL HOUSE

CHISLEHURST, KENT

THE HARE NURSING HOME

For the treatment of Alcoholism, other Drug Habits, Insomnia, Neurasthenia, Functional Nervous Disorders. Fees 6 to 8 guineas. Special terms for paying guests or long term patients. Billiards and various amusements. Charmingly situated. Under new management with added accommodation. Ladies and gentlemen admitted for treatment. For Prospectus apply Medical Superintendent or Matron.

'Phone: Chislehurst 451.

LITTLETON HALL, BRENTWOOD, ESSEX

(18 MILES FROM LONDON.)

400 feet above sea.

HOME for few LADIES Mentally Afflicted. Large grounds. Liverpool st. 26min. Stations Brentwood, Shenfield, one mile. Boarders received.

Apply Dr. Haynes

Telephone and Telegrams: Haynes Brentwood 45.

NORTHUMBERLAND HOUSE

GREEN LANES,

FINSBURY PARK, N.4

A PRIVATE HOSPITAL for the treatment of mental and nervous illnesses. Conveniently situated and easy of access from all parts. Occupational Therapy, Psychotherapy, and other modern forms of treatment.

Telephone: Stamford Hill 2688.

For further particulars apply to the MEDICAL SUPERINTENDENT.

LA LIGNIERE, GLAND

(SWITZERLAND)

Medical institution located on the shores of beautiful Lake Geneva, half-way between Lausanne and Geneva.

Scientific treatment of DIGESTIVE DISORDERS, CHRONIC DISEASES, DIABETES, OBESITY, &c., by skilled resident physicians. Physiotherapy in its various forms. Special emphasis on diet. Convalescence and rest cures.

PORTSMOUTH CITY MENTAL HOSPITAL

Accommodation is provided for the reception of PRIVATE PATIENTS of both sexes in three detached Villas, which are healthily and pleasantly situated in extensive grounds with sea views.

Charges from 3 guineas weekly, including all necessaries except clothing.—Apply to the Medical Superintendent and Resident Physician, THOMAS BEATON, O.B.E., M.D., F.R.C.P.

MALLING PLACE, KENT

For LADIES and GENTLEMEN of Unsound Mind

Terms moderate: Apply to Resident Medical Superintendent
Telegrams: ADAM WEST MALLING. Telephone: No. 2 MALLING

BROOKE HOUSE, CLAPTON

A PRIVATE HOME for the treatment of Nervous and Mental Disorders in both sexes. Situated in nine acres of Pleasure Grounds.

Voluntary, Temporary, and Certified Patients received.

For further particulars apply—
Dr. ERNEST ROLLINS, Resident Physician.
Tel.: Amherst 1642.

Grove House, All Stretton, Church

STRETTON, SHROPSHIRE.

A PRIVATE HOME for the care and treatment of a limited number of Ladies Mentally Afflicted.

Climate healthy and bracing.

Apply to Dr. MCCLINTOCK, Proprietor and Resident Medical Superintendent.

FENSTANTON

Christchurch Road, Streatham Hill, S.W.2

A Private Home for the Treatment of LADIES with Mental and Nervous Disorders. Psycho-Therapy, Physio-Therapy, &c. 12 acres of grounds

Apply: Dr. MADELINE R. LOCKWOOD,
phone: TULSE HILL 7181 *Resident Physician Superintendent.*

ASHWOOD HOUSE

KINGSWINFORD, STAFFORDSHIRE

An old-established home-like Institution for the treatment of MENTAL AFFECTIONS in BOTH SEXES. Probationary cases and non-certified patients are received as well as those regularly certified.

Full particulars as to reception terms, &c., may be obtained from the Resident Medical Officer.

The Prince of Wales's General Hospital,

London, N.15.

Applications are invited for the post of HONORARY MEDICAL REGISTRAR.

Honorarium £100 per annum.

Candidates must be Graduates in Medicine of a British University, or be Members of a Royal College of Physicians.

Applications, together with copies of three testimonials, to be sent to the undersigned on or before March 1st, 1938.

J. C. BURDETT, Director and House Governor.

The Prince of Wales's General Hospital,

London, N.15.

The following Resident posts will be vacant on March 15th next:—

(*a*) One JUNIOR HOUSE PHYSICIAN.
(*b*) Two JUNIOR HOUSE SURGEONS.

Salary at the rate of £90 per annum, board, residence, and laundry.

Appointments held for six months, but holders are eligible for a further term as Senior.

Candidates (Male and unmarried) must be fully qualified and registered, and applications (on the prescribed form), together with copies of three recent testimonials, should be sent to the undersigned on or before March 1st, 1938.

J. C. BURDETT, Director and House Governor.

1st February, 1938.

Metropolitan Hospital,

Kingsland-road, E.8. (150 Beds.)

Applications are invited for the post of CASUALTY OFFICER AND RESIDENT ANÆSTHETIST (Male). Salary at the rate of £100 per annum, with board, residence, and laundry. Duties to commence 1st March.

Candidates must possess a registered medical and surgical qualification of the United Kingdom.

Form of application may be obtained from the undersigned.

Applications must be returned by Friday, 18th February.

FRANK JENNINGS, House Governor and Secretary.

Elizabeth Garrett Anderson Hospital,

Euston-road, N.W.1.

Applications are invited from fully qualified Medical Women for the post of MEDICAL REGISTRAR, non-resident. Honorarium £100 per annum. Duties to commence 1st April, 1938.

Particulars of the post can be obtained from the undersigned, to whom applications, with testimonials (copies of three), should be sent before 25th February, 1938.

24th January, 1938. JEAN R. MURRAY, Secretary.

University of London.

The Senate invite applications for the UNIVERSITY READERSHIP IN EMBRYOLOGY tenable at University College. Salary £750 a year.

Applications (twelve copies) must be received not later than first post on 4th March, 1938, by the Academic Registrar, University of London, W.C.1, from whom further particulars should be obtained.

Metropolitan Borough of Fulham.

MATERNITY HOME AND CLINIC—RESIDENT MEDICAL OFFICER AND ASSISTANT MEDICAL OFFICER FOR MATERNITY AND CHILD WELFARE.

Applications are invited from unmarried qualified Medical Practitioners of either sex, with special obstetric experience, for the appointment of Resident Medical Officer and Assistant Medical Officer for Maternity and Child Welfare at the Council's new Maternity Home and Clinic (25 beds). The officer appointed will also have medical charge of certain antenatal, postnatal, infant welfare and ultra-violet light clinics, and experience in these and the possession of the Diploma in Public Health will be additional qualifications.

The scale of salary will be £350 per annum, rising by annual increments of £25 to £550 per annum, plus emoluments valued for superannuation purposes at £150 per annum. The commencing salary will be within the above scale at a point in accordance with the qualifications and experience of the person appointed as determined by the Council.

Detailed particulars of the terms and conditions of the appointment, together with a form of application, will be sent on receipt of a stamped addressed foolscap envelope. Applications must be delivered to me not later than 19th February. Canvassing is strictly prohibited and will disqualify.

WILFRED TOWNEND, Town Clerk.

Town Hall, Fulham, S.W.6.

The Royal Waterloo Hospital for

CHILDREN AND WOMEN, Waterloo-road, S.E.1.

ANÆSTHETIST.

There is a vacancy for an Anæsthetist (Male) at the above Hospital. Honorarium £52 per annum.

Applications, accompanied by three testimonials, should be sent to the Secretary at the Hospital not later than February 16th.

Miller General Hospital,

Greenwich-road, S.E.10.

Applications are invited for the following posts:—

CASUALTY OFFICER, Male; part time; afternoon session. Salary £150 per annum, non-resident.

Fuller particulars on application.

HOUSE PHYSICIAN (Resident), Male; unmarried. Salary £100 per annum.

HOUSE SURGEON (Resident), Male; unmarried. Salary £100 per annum.

The appointments are for six months from April 1st, 1938. There are six Resident Officers.

Application forms can be obtained from the Secretary, and must be returned not later than 18th February, 1938.

1st February, 1938.

St. Bartholomew's Hospital.

WHOLE-TIME CHIEF ASSISTANT IN THE X RAY DIAGNOSTIC DEPARTMENT.

Applications are invited for the post of Whole-time Chief Assistant in the X Ray Diagnostic Department of the above Hospital.

The salary will be at the rate of from £400 to £500 per annum, and appointment will be made as from the 1st March, 1938.

Candidates, who must possess a Diploma in Medical Radiology, should send in their applications to the undersigned not later than Saturday, 19th February, 1938.

C. C. CARUS-WILSON, Acting Clerk to the Governors.

22nd January, 1938.

Queen Mary's Hospital for the East

End, E.15.

Applicants are invited for the post of HONORARY ASSISTANT OBSTETRIC AND GYNÆCOLOGICAL SURGEON at the above Hospital.

Candidates must be Fellows of the Royal College of Surgeons of England and Members or Fellows of the British College of Obstetricians.

Applications, with copies of three recent testimonials, should be forwarded to the undersigned not later than Thursday, the 24th of February, 1938.

RAPHAEL JACKSON, Major, Secretary.

ROYAL AIR FORCE MEDICAL SERVICE

Applications are invited from Medical Men for appointment to COMMISSIONS in the MEDICAL BRANCH of the ROYAL AIR FORCE for entry in May, 1938.

Candidates must be of pure European descent. They must be British Subjects, the sons of British Subjects and registered under the Medical Acts.

Candidates must normally be under 28 *years of age*, but as a temporary measure consideration will be given to candidates up to 31 years of age and will be selected after interview by a selection board without competitive examination.

Hospital appointments held since qualifying will, under certain conditions, qualify candidates for antedate of commission up to a maximum of one year; the age on entry may, if necessary, be increased by a period equal to the "antedate."

Selected candidates will be appointed to short service commissions (for 3 years extendible to 5 years) followed by 4 years' service in the Reserve, and will be eligible to be considered for Permanent Commissions after having completed their first year of service and during the whole period of their service on the active list. Officers selected for Permanent Commissions will be allowed to count their service on a short service commission towards retired pay or gratuity to permanent officers. Officers not selected for Permanent Commissions receive gratuity as follows, on transferring to the Reserve :—

On completion of 3 years	£400
,, ,, 5 ,, ...	£1,000

Copies of the regulations for entry and conditions of service, including rates of pay and allowances, also form of application, may be obtained on application from: The Secretary, Air Ministry (D.M.S.), Adastral House, Kingsway, W.C.2.

Completed applications from intending candidates for the vacancies in May, 1938, must be received in the Air Ministry not later than the 15th March, 1938.

ROYAL NAVAL MEDICAL SERVICE

Vacancies exist for MEDICAL OFFICERS in the Royal Navy, and applications are invited for entry in April, 1938.

Candidates below the age of 28 years are preferred and they must be registered under the Medical Acts. No examination in professional subjects will be held but candidates will be required to attend for interview by a Selection Board.

Selected candidates will be entered for Service for a period of three years in the first instance, which may be extended to five years at the discretion of the Admiralty.

At the end of three years' service officers may retire with a gratuity of £400, but those who serve for five years will receive £1,000.

At the end of five years' Short Service permanent commissions will be given to selected officers who wish to make the Naval Medical Service their permanent career. Officers transferred to the permanent list will receive a gratuity of £1,000 (less Income Tax).

Opportunities are available for officers on the permanent list to specialise, and ample provision is made for Post-graduate study.

Copies of the regulations for entry and conditions of Service, including rates of pay and allowances, may be obtained from the Medical Director-General of the Navy, Admiralty, S.W.1, and from the Deans of all Medical Schools.

Applications for entry from intending candidates must be received not later than 28th February, 1938.

West London Hospital,
Hammersmith, W.6. (239 Beds.)

Applications are invited for the post of MEDICAL REGISTRAR to the Children's Department for a period of one year, eligible for re-election annually for a total period of not more than three years. An honorarium at the rate of £100 a year is attached to the post.

The duties include attendance in the Out-patient Department on four mornings a week, acting as deputy for the Physician to the Children's Department when required, and such teaching for the West London Hospital Medical School as the Board may approve.

Candidates, who may be Male of Female, must be registered under the Medical Act, and should have had wide experience in Children's work.

Applications, with copies only of testimonials, should reach me not later than Thursday, 17th February. Candidates must attend the Meeting of the Medical Council at 4.30 P.M. on Friday, 18th February, and prior to that date call upon and send copies of their application and testimonials to each member thereof. They must not canvass members of the Board, but nevertheless, should send copies of their application and testimonials to each member thereof and, if so notified, be in attendance at a Meeting of the Board at 5 P.M. on Tuesday, 22nd February, when the election will be made.

H. A. MADGE, Secretary.

West London Hospital,
Hammersmith-road, W.6. (239 Beds.)

Required 1st March, ONE RESIDENT ANÆSTHETIST (Male). The appointment is tenable until 30th September, 1938, subject to one month's notice on either side. Salary at the rate of £100 a year, with board, lodgings, and laundry allowance.

Candidates must be registered under the Medical Act. Applications (which must be made on printed forms obtained from me) must reach me not later than first post on Friday, 18th February. Selected candidates will be required to call upon such members of the Medical Staff as directed; to be in attendance at the Medical Council Meeting on Friday, 25th February, at 4.30 P.M., and the House Committee Meeting at 5 P.M. the same day, when the appointment will be made.

H. A. MADGE, Secretary.

The Hospital for Sick Children,
Great Ormond-street, London, W.C.1.

A RESIDENT AURAL REGISTRAR is required, duties to commence not later than the 1st April, 1938.

Gentlemen are invited to send in their applications, addressed to the Secretary, before 12 o'clock on Monday, 21st February, 1938, with copies of not more than three testimonials given specially for the purpose.

The appointment will be made for one year, but the holder may be re-elected for a further period of one year. Salary £150 per annum, laundry allowance £10, board and residence in the Hospital. The duties will be those of a house officer to the Aural In-patients, and of a registrar in assisting in the Aural Out-patient Department. Opportunity will be afforded for acquiring operative experience.

Candidates must be unmarried and possess a legal qualification to practise, and must have held a responsible resident appointment at a General Hospital.

All candidates must be in attendance to appear before the Joint Committee, if required, at their Meeting on Wednesday, 2nd March, 1938, at 4.45 P.M. precisely.

Forms of application and copies of the rules can be obtained from the undersigned. HERBERT F. RUTHERFORD, Secretary.

January, 1938.

The Willesden General Hospital,
Harlesden-road, N.W.10.

The Council of Management invite applications for the appointment of GYNÆCOLOGICAL REGISTRAR.

Candidates must be Fellows of the Royal College of Surgeons of England.

Five copies of application, containing the names of three referees (testimonials should not be sent), to be received not later than the first post on Thursday, 17th February, 1938, by the Secretary of the Hospital, from whom a copy of the Regulations may be obtained.

TANCRED'S STUDENTSHIPS

Shortly after Midsummer next the Governors and Trustees propose to elect One Student in Physic at Gonville and Caius College, Cambridge, One Student in Divinity at Christ's College, Cambridge, and One Student in Law at Lincoln's Inn.

Candidates must have been born in England, Scotland, or Wales, and be members of the Church of England, unmarried, and within the ages of seventeen and twenty years for Physic and Divinity, and eighteen and twenty-three for Law.

After 1938 the election will take place about Whitsuntide and the age limit for the Law Studentship (which will be awarded without examination) will be nineteen and twenty-three years.

The annual stipend of each student is £100.

The last day for sending in Petitions this year is May 15th.

Applications, stating *kind* of Studentship and mentioning this paper should be made to the Clerk, Mr. CHOLMELEY, 28, Lincoln's Inn-fields, London, W.C.2.

Hospital for Diseases of the Skin,
Blackfriars.

Applications are invited for positions as CLINICAL ASSISTANTS. Preference will be given to those with dermatological experience.

Applications, with testimonials in support, must be sent before March 15th to L. MUNDY, Secretary to the Hospital for Diseases of the Skin, 71, Blackfriars-road, S.E.1, from whom any further information may be obtained.

Hospital for Diseases of the Skin,
Blackfriars.

The Committee of Management will shortly appoint an additional member of the HONORARY STAFF. Candidates must either be Members of the Royal College of Physicians (London) or Fellows of the Royal College of Surgeons (England).

Applications, with testimonials in support, must be sent before March 15th to L. MUNDY, Secretary to the Hospital for Diseases of the Skin, 71, Blackfriars-road, S.E.1, from whom any further information may be obtained.

Royal Free Hospital,
Gray's Inn-road, W.C.1.

Applications are invited from duly qualified and registered Medical Women for the following post:—

RESIDENT CASUALTY OFFICER

Duties to commence 1st April, 1938, for six months. Salary £150 per annum.

Candidates must have held previous resident Hospital appointments.

Application form may be had from the undersigned and should be duly filled in and returned on or before the 5th March, 1938.

RICHARD T. BARTLEY, Secretary.

The London Lock Hospital,
283, Harrow-road, W.9.

Applications are invited for the post of RESIDENT MEDICAL OFFICER (Male) to all departments.

Candidates must be doubly qualified and duly registered. The appointment is for six months, commencing 14th March. Salary at the rate of £175 per annum, with furnished rooms, full board, and laundry. Preference will be given to candidates having previous obstetric experience.

Applications, enclosing copies (only) of three recent testimonials, must be in the hands of the undersigned by first post on Friday, 4th March, and from whom any further particulars can be obtained.

1st February, 1938. J. F. MORTON, Secretary.

County Council of Middlesex.

RESIDENT CASUALTY MEDICAL OFFICER.

Applications are invited for the above appointment at WEST MIDDLESEX COUNTY HOSPITAL, ISLEWORTH. Candidates must be registered Medical Practitioners who have held the post of both House Physician and House Surgeon at a general hospital, and have had considerable all-round experience.

Salary £350 per annum, with board, lodging, and laundry, valued at £100 per annum.

The officer appointed will be required to deal with casualties and admissions to the hospital, and to carry out such other duties as may be allotted to him.

The appointment, which does not at present carry any superannuation rights, will be subject to medical examination, is for a period of six months in the first instance, may be extended for an additional six months, and is terminable by one month's notice on either side.

The officer appointed will work under the direction of the Medical Superintendent and will devote his whole time to official duties.

Applications, stating age, qualifications, and experience, together with copies of not more than three recent testimonials, must be received by the undersigned not later than 26th February. Application forms are not provided. Envelopes must be endorsed "Casualty Medical Officer, West Middlesex County Hospital." Relationship to any member or officer of the Council must be disclosed in the application.

Canvassing, directly or indirectly, will be a disqualification.

C. W. RADCLIFFE, "B3"
Clerk of the County Council.

Middlesex Guildhall, Westminster, S.W.1, 1st February, 1938.

Westminster Hospital,
BROAD SANCTUARY, S.W.1.

A vacancy has been declared in the office of PHYSICIAN to the Hospital. Candidates must be Fellows of the Royal College of Physicians, London, and they are required to submit a certificate of age, thirty copies of their applications, with thirty copies of each of three testimonials, to the undersigned not later than Monday, 21st February, 1938.

Candidates will be required to attend the House Committee on Tuesday, 22nd February, 1938, at 4 P.M. The Senior Physician in charge of out-patients is a candidate for the office.

By order of the House Committee.

CHARLES M. POWER, Secretary.

Royal London Ophthalmic Hospital
(MOORFIELDS EYE HOSPITAL), City-road, E.C.1.

Applications are invited for the post of SENIOR RESIDENT OFFICER.

Candidates must be registered Medical Practitioners and must be prepared to begin duties on the 1st May, 1938.

Salary at the rate of £150 per annum, with board and residence in the Hospital. Additional income will accrue to this post, the care of private patients being included in the duties.

In the event of the First House Surgeon being appointed other candidates are requested to state whether they would accept the office of First House Surgeon at the rate of £150 per annum, Second House Surgeon at the rate of £125 per annum, or Third Surgeon at the rate of £100 per annum. The candidate elected, as Third House Surgeon must be prepared to begin his duties with the present officer on 1st April, 1938, and will be non-resident until 1st May, 1938.

The appointments are for a period of six months as from the 1st May, 1938.

Applications, with testimonials, stating age and qualifications must be received not later than 25th February, 1938, by

A. J. M. TARRANT, Secretary.

Charing Cross Hospital.

SURGICAL REGISTRAR.

The Council invite applications from candidates, who must be registered Medical Practitioners (Male), for the post of Second Surgical Registrar. Honorarium £150 per annum.

A copy of the regulations can be obtained from the undersigned, to whom applications, together with copies of three recent testimonials, must be submitted not later than Monday, 28th February, 1938.

GEORGE J. JONES, Secretary.

Charing Cross Hospital, London, W.C.2.

Central London Ophthalmic Hospital,
Judd-street, St. Pancras, W.C.1.

Applications are invited from registered Medical Practitioners for the posts of SENIOR and JUNIOR HOUSE SURGEON, vacant on March 31st. The Junior House Surgeon is a candidate for the Senior post. Salary £120 and £100 per annum respectively, with board and residence.

Applications, with copies of three testimonials, should reach the Secretary on or before February 28th.

County Council of Middlesex.

OBSTETRIC SURGEON.

Applications are invited from registered Medical Practitioners for the appointment on the pensionable staff of an Obstetric Surgeon (Grade II) at West Middlesex County Hospital, Isleworth. The appointment is a senior one in the Council's general hospital service, and applicants are expected to be Medical Men or Women of high qualifications and professional attainments, who have devoted their time wholly or chiefly to the practice of obstetrics and gynæcology. The successful candidate will work under the direction of the Medical Superintendent of the hospital, and the whole of his time must be given to his official duties. He must be prepared to undertake the teaching of midwives and students, if required, and to carry out such other duties as the County Council may from time to time direct.

Salary £650 per annum, rising by annual increments of £50 to £900; and after eight years' service in this grade, two additional annual increments of £50 each. The salary is inclusive, and any fees received by the officer appointed must be paid over to the County Council.

The appointment is non-resident, and the successful candidate will be required to reside within a short distance of the hospital. In the case of an unmarried officer, if accommodation is available, board, lodging, laundry, and service may be provided by the County Council, and in this event a deduction of £150 per annum will be made from the officer's salary.

The appointment, which will be subject to medical examination, will be held during the pleasure of the Council, and is terminable by three months' notice on either side.

Applications, stating age, qualifications, and experience, together with copies of not more than three recent testimonials, must be received by the undersigned not later than 26th February. Relationship to any member or officer of the Council must be disclosed in the application. Application forms are not provided. Envelopes must be endorsed "Obstetric Surgeon, West Middlesex County Hospital."

Canvassing, directly or indirectly, will be a disqualification.

C. W. RADCLIFFE, "B3," Clerk of the County Council.

Middlesex Guildhall, Westminster, S.W.1,
3rd February, 1938.

The Royal Eye Hospital,
St. George's-circus, Southwark, S.E.1.

SENIOR HOUSE SURGEON and Two ASSISTANT HOUSE SURGEONS required at the above Hospital. The appointment is in the first instance for a period of six months, with board and residence, as from 1st April.

Salaries: Senior House Surgeon at the rate of £150 per annum; Assistant House Surgeons at £100 per annum.

Candidates must be registered Practitioners.

Applications, with copies of three recent testimonials, should be sent to the Secretary not later than Tuesday, 1st March.

F. E. D'ALTON, Secretary.

GUY'S HOSPITAL MEDICAL SCHOOL

FINAL FELLOWSHIP COURSE

The next Course of Instruction in preparation for the Final Examination for the Fellowship of the Royal College of Surgeons of England will commence on MONDAY, FEBRUARY 21ST.

Intending applicants for admission to the Course should communicate with the Dean, Guy's Hospital Medical School, London Bridge, S.E.1.

St. John Clinic and Institute of
PHYSICAL MEDICINE
(Under the jurisdiction of the Order of St. John of Jerusalem), Ranelagh-road, S.W.1.

Applications are invited for the position of MEDICAL REGISTRAR (non-resident). The Institute is a recognised Post-graduate teaching centre in physical medicine, and offers abundant opportunities for experience and Research in Physical Medicine, and particularly in the Rheumatic Diseases. The appointment is for one year, and the candidate is eligible for re-election. Salary £200.

The candidate appointed will be required to take up duties on 1st of March, 1938.

Further particulars may be obtained from the Secretary, to whom applications, with copies of three recent testimonials, must be sent by Friday, February 25th, 1938.

The London Homœopathic Hospital
(Incorporated by Royal Charter.)
Great Ormond-street, Bloomsbury, W.C.1.
(A General Hospital. 200 Beds.)

APPOINTMENT OF GYNÆCOLOGICAL HOUSE SURGEON.

Applications are invited for the appointment of Gynæcological House Surgeon (with charge also of few Throat, Nose, and Ear Beds), vacant April 1st, 1938.

The appointment is one of four Resident Medical posts which occur periodically during the year, and is for a period of six months, with salary at a rate of £100 per annum, and board, apartments, and laundry.

Candidates must be legally qualified and registered.

Selected candidates will be required to attend a meeting of the Medical Committee for interview on March 9th.

Applications, stating age, with copies of testimonials, to be sent to the undersigned not later than March 1st.

L. J. KNOWLES, Secretary.

The Marie Curie Hospital
(Centre for Treatment of Cancer in Women by Radium and X rays).

Applications are invited from qualified Medical Women for the post of RESIDENT MEDICAL OFFICER. Previous hospital experience desirable. Salary £100 per annum.

Applications to be sent with copies of not more than three recent testimonials, to the Secretary, 2, Fitzjohn's-avenue, London, N.W.3, by Wednesday, 16th February.

The Queen's Hospital for Children,
Hackney-road, E.2.

CLINICAL ASSISTANT to Medical Out-patients required. Attendance on Saturday at 9.30 A.M. for about 2½ hours. An honorarium of 5s. per attendance will be paid. The appointment will be for six months in the first instance and cannot be held for longer than two years.

Applications, with copies of not more than three testimonials, should be addressed to the undersigned.

CHARLES H. BESSELL, Secretary.

3rd February, 1938.

St. John's Hospital, Lewisham, S.E.13.

Applications are invited for the appointment of RESIDENT SURGICAL OFFICER (Male), which becomes vacant on the 1st April next. Candidates should have been qualified not less than two years and should have had one year's experience of hospital appointments. Preference will be given to those holding a senior surgical qualification. The appointment is for twelve months at a remuneration of £200 per annum, with the addition of Resident Staff Panel Fees.

Applications, with copies of testimonials, should reach the undersigned not later than Tuesday, March 8th.

J. C. GILBERT, Secretary-Superintendent.

London Hospital, E.1.

A vacancy occurs for the post of PHYSICIAN to the London Hospital. An Assistant Physician is a candidate for the post.

ARTHUR G. ELLIOTT, House Governor.

London Hospital, E.1.

There is a vacancy for the post of ASSISTANT PHYSICIAN at this Hospital.

Candidates must be Members of the Royal College of Physicians in London.

Applications should be sent to the House Governor and should arrive not later than Saturday, 12th March, 1938.

ARTHUR G. ELLIOTT, House Governor.

The London Homœopathic Hospital

(Incorporated by Royal Charter),
Great Ormond-street, Bloomsbury, W.C.1.
(A General Hospital. 200 Beds.)

APPOINTMENT OF HOUSE SURGEON.

Applications are invited for the appointment of House Surgeon, vacant April 1st, 1938.

The appointment is one of four Resident Medical posts which occur periodically during the year, and is for a period of six months, with salary at the rate of £100 per annum, with board, apartments, and laundry.

Candidates must be legally qualified and registered.

Selected candidates will be required to attend a meeting of the Medical Committee for interview on March 9th.

Applications, stating age, with copies of testimonials, to be sent to the undersigned not later than March 1st.

L. J. KNOWLES, Secretary.

London County Council.

Applications invited from MEDICAL PRACTITIONERS of at least one year's standing to undermentioned position. Experience in a resident appointment in a general hospital for at least six months desirable. Married quarters not available.

QUEEN MARY'S HOSPITAL FOR CHILDREN, CARSHALTON, SURREY. (1284 Beds.) There are special departments for rheumatic and orthopædic conditions, for congenital malformations and for nutritional diseases.

ASSISTANT MEDICAL OFFICER (Grade II). Salary £250 a year, together with board, lodging, and washing. Appointment for one year only in first instance (renewable for a second year under certain conditions).

Application forms obtainable (stamped addressed foolscap envelope necessary) from Medical Officer of Health, Staff Division 2B, County Hall, S.E.1, returnable by 21st February.

Canvassing disqualifies.

County Council of Middlesex.

PHYSICIAN (GRADE I).
REDHILL COUNTY HOSPITAL, EDGWARE.

Applications are invited from registered Medical Practitioners for the above appointment on the pensionable staff. The appointment is a senior one in the Council's general hospital service and applicants are expected to be Medical Men or Women of high qualifications and professional attainments, who are devoting their time wholly or chiefly to the practice of clinical medicine. The officer appointed will work under the direction of the Medical Superintendent of the Hospital and will give his whole time to the duties of the post. He must be prepared to undertake the teaching of nurses and, if required, of students, and to carry out such other duties as the Council may from time to time direct.

The Hospital is one of 225 beds for acute medical and surgical cases and for maternity. Large extension of over 300 further beds are nearing completion. In addition to a full-time physician, surgeon, obstetrician, and pathologist, there is a resident medical staff of five and a part-time radiologist, pathologist, and dental surgeon.

Salary £1000 per annum, rising by annual increments of £50 to £1500 per annum. The salary is inclusive and any fees received by the officer appointed must be paid over to the Council.

The appointment is non-resident, but the successful candidate will be required to reside within a short distance of the Hospital. The appointment, which will be subject to medical examination, will be held during the pleasure of the Council, and is terminable by three months' notice on either side.

Applications, stating age, qualifications, and experience, together with copies of not more than three recent testimonials, must be received by the undersigned not later than 26th February. Relationship to any member or officer of the Council must be disclosed in the application. Application forms are not provided. Envelopes must be endorsed "Physician, Redhill County Hospital."

Canvassing, directly or indirectly, will be a disqualification.

C. W. RADCLIFFE, "B3," Clerk of the County Council.

Middlesex Guildhall, Westminster, S.W.1.
3rd February, 1938.

Central London Throat, Nose, and Ear

HOSPITAL, Gray's Inn-road, W.C.1.

ASSISTANTS IN THE OUT-PATIENT DEPARTMENT.

There are the following vacancies :—
Third Assistant, to attend on Mondays at 2 P.M.
Third Assistant, to attend on Tuesdays at 5 P.M.
Third Assistant, to attend on Fridays at 2 P.M.

The duties are to assist the Surgeon in seeing the patients, and the posts are honorary.

Applications, which may be for periods of three, six, or twelve months, should be sent to the undersigned immediately.

JOHN H. YOUNG, Secretary-Superintendent.

Central London Throat, Nose, and Ear

HOSPITAL, Gray's Inn-road, W.C.1.

RESIDENT HOUSE SURGEON (Male).

There is a vacancy for a Third Resident House Surgeon to enter on duty immediately. The appointment will be for a period of ten months; four months as Third House Surgeon, three months as Second House Surgeon, and three months as First House Surgeon. Remuneration at the rate of £75 p. a.

Applications, accompanied by copies of not more than three testimonials, should be sent to the undersigned immediately.

JOHN H. YOUNG, Secretary-Superintendent.

South London Hospital for Women,

Clapham Common, S.W.4.

Applications are invited from medical women as
CLINICAL ASSISTANTS
for Gynæcological Out-patients to attend on Monday afternoons; for Orthopædic Out-patients to attend on Thursday afternoons; and for Medical Out-patients to attend on Friday afternoons.

Applications with testimonials to be sent to the Secretary at the Hospital.

St. Bartholomew's Hospital.

APPOINTMENT OF DENTAL HOUSE SURGEON.

Applications are invited for the office of House Surgeon to the Dental Department. Candidates must hold a registrable Dental qualification, and a Medical qualification in addition is desirable but not essential.

Candidates will be required to call upon the three Dental Surgeons, and the three Assistant Dental Surgeons.

Appointment will be made for six or twelve months as from the 1st May, 1938.

The salary attaching to the office is £80 per annum (non-resident).

Twelve copies of applications with testimonials should be left with the undersigned not later than Monday, 28th February, 1938.

C. C. CARUS-WILSON.

8th February, 1938.

Kent County Council.

PUBLIC ASSISTANCE COMMITTEE.

COUNTY HOSPITAL, CHATHAM.

APPOINTMENT OF CONSULTING SURGEON.

Applications are invited for the appointment of CONSULTING SURGEON at the above Hospital. Applicants must be Fellows of the Royal College of Surgeons of England.

The person appointed will be required to attend at the Hospital for one half-day session a week, and will be remunerated at the rate of £170 a year. First-class travelling expenses will be paid.

Applications, stating age, qualifications, and experience, with copies of three testimonials, should be sent to the Public Assistance Officer, Tonbridge-road, Maidstone, by not later than the 21st February, 1938.

W. L. PLATTS, Clerk of the County Council.

Sessions House, Maidstone, 31st January, 1938.

Kent County Council.

PUBLIC ASSISTANCE DEPARTMENT.

COUNTY HOSPITAL, CHATHAM.

APPOINTMENT OF CONSULTING PHYSICIAN.

Applications are invited for the appointment of CONSULTING PHYSICIAN to the above Hospital. Applicants must be Graduates in Medicine of a University in the British Empire, and Fellows or Members of the Royal College of Physicians, London.

The person appointed will be required to attend at the Hospital for one half-day session a week, and will be remunerated at the rate of £170 a year. First-class travelling expenses will be paid.

Applications, stating age, qualifications, and experience, with copies of three testimonials, should be sent to the Public Assistance Officer, Tonbridge-road, Maidstone, by not later than the 21st February, 1938.

W. L. PLATTS, Clerk of the County Council.

Sessions House, Maidstone, 31st January, 1938.

Cheshire County Council.

CLATTERBRIDGE (COUNTY) GENERAL HOSPITAL
(Near BIRKENHEAD).
(300 Beds.)

JUNIOR RESIDENT ASSISTANT MEDICAL OFFICER.

Applications (Male or Female) are invited for the above appointment which falls vacant on the 24th March.

The appointment is for a period of six months at a salary of £200 per annum, together with the usual residential allowances.

The appointment may be renewed for a further period of six months.

There is a Non-resident Medical Superintendent, a Resident Deputy Medical Superintendent, and a Consulting Staff from Teaching Hospitals.

Applications to be made on forms obtainable from the undersigned and returned not later than the 23rd February, 1938.

IAN MACKAY,
County Medical Officer of Health.

24, Nicholas-street, Chester.

Ingham Infirmary, South Shields.

Wanted, HOUSE SURGEON (Male). Salary £150 per annum, with board, residence, and laundry. No out-visiting. Candidates must hold registered qualifications in Medicine and Surgery. The appointment will be terminable by one month's notice.

Applications, stating age, and accompanied by copies (which will not be returned) of recent testimonials, to be sent to the undersigned from whom further particulars may be obtained.

JOHN POTTER, Secretary.

Hull Royal Infirmary.

Applications are invited for the post of SECOND CASUALTY OFFICER (Male), vacant February 12th.

Salary £150 per annum, plus board, residence, and laundry.

In addition to carrying out duties in the Casualty Department the officer appointed will act as House Surgeon to one of the Honorary Assistant Surgeons, and will thus obtain Ward and Theatre experience. He will be eligible for promotion to a more senior post when a vacancy occurs.

The appointment will be for a period of six months, but will be determinable at any time by one month's notice on either side.

Applications, giving particulars of age, experience, and nationality, together with copies of testimonials, should be addressed to the undersigned.

R. J. CARLESS, House Governor.

January 31st, 1938.

Children's Hospital, Nottingham.

Applications are invited for the post of RESIDENT HOUSE SURGEON (Woman). The salary will be at the rate of £150 per annum, with apartments, board, and laundry. The appointment will be for six months, duties to commence on the 1st May.

Applications, together with testimonials, stating age, qualifications, and experience, to be sent to the Honorary Secretary, 1, King John's-chambers, Bridlesmith-gate, Nottingham, on or before Tuesday, 15th February. Selected candidates will be required to attend at the Hospital for a personal interview.

Children's Hospital, Nottingham.

Applications are invited for the post of RESIDENT HOUSE PHYSICIAN (Woman). The salary will be at the rate of £150 per annum, with apartments, board, and laundry. The appointment will be for six months, duties to commence on the 1st April.

Applications, together with testimonials, stating age, qualifications, and experience, to be sent to the Honorary Secretary, 1, King John's-chambers, Bridlesmith-gate, Nottingham, on or before Tuesday, 15th February. Selected candidates will be required to attend at the Hospital for a personal interview.

City of Leeds.

ASSISTANT MEDICAL OFFICER.

Applications are invited from qualified and registered Medical Practitioners for the post of Assistant Medical Officer for Maternity and Child Welfare. Applicants must have had not less than three years' post-graduate experience, including experience in General Medicine and Surgery, and special experience in Obstetrics and Ante-natal work, and in the treatment of Children's Diseases and Disease of Women. Preference will be given to candidates possessing the D.P.H.

Under the present Grading Scheme of the Council, the commencing salary for the post is £500 per annum and the maximum salary £700, with annual increments of £25, subject to satisfactory service, and the first increment will take effect on the 1st April following the completion of twelve months' service.

The person appointed will be required to pass a medical examination, and to contribute to the Superannuation Fund established under the Local Government and Other Officers' Superannuation Act, 1922. The appointment will be terminable by one month's notice on either side.

Form of application and particulars as to the duties of the appointment may be obtained from the undersigned.

Applications, endorsed "Maternity and Child Welfare Officer," together with copies of three recent testimonials, must be delivered at the Health Department, 12, Market-buildings, Vicar-lane, Leeds, 1, not later than 10.30 A.M. on Saturday, 19th February, 1938.

Canvassing in any form, either directly or indirectly, will be a disqualification.

J. JOHNSTONE JERVIS, Medical Officer of Health.

The Southampton Children's Hospital
AND DISPENSARY FOR WOMEN.

The Board of Management invite applications for the post of RESIDENT MEDICAL OFFICER (Lady). Six months' appointment. Salary at the rate of £150 per annum, with board, residence, and laundry.

Applications, stating age, accompanied by copies of testimonials, to be sent to the undersigned not later than 18th February. The selected candidate will be required to take up her duties at the beginning of March.

ELLA K. MATTHEWS, Secretary.

The Gloucestershire Royal Infirmary
AND EYE INSTITUTION, GLOUCESTER.
(225 Beds. Five Residents.)

Applications are invited for the post of HOUSE SURGEON (Male) to the Ear, Nose, and Throat Department. Salary at the rate of £150 per annum, with board, residence, and laundry.

The Hospital is recognised for the D.L.O. and the F.R.C.S. Final Examinations.

The appointment is for six months, which may be extended for similar periods by re-election from time to time.

Applications, stating age, qualifications, experience, and nationality, with copies of not less than three recent testimonials, should be received by the undersigned not later than Wednesday, February 16th.

The elected candidate will be required to enter upon his duties on March 1st.

F. J. SYMONS, Secretary.

February 3rd, 1938.

Department of Health for Scotland.

APPOINTMENT OF REGIONAL MEDICAL OFFICERS.

The Department of Health for Scotland are prepared to receive applications from registered Medical Practitioners (men and women) for two posts of Regional Medical Officers to be employed on combined clinical and administrative duties in connexion with the National Health Insurance Medical Service and otherwise.

Qualifications.

Applicants must be Medical Practitioners of standing in the profession and with experience in hospital and general practice. They must be not more than 45 years of age on 1st January, 1938. Consideration will be given to extra diplomas in special branches of medicine.

Residence.

Regional Medical Officers are required to reside in such part of Scotland as the Department may determine.

Remuneration.

The rate of remuneration will be £800 by annual increments of £30 to £1100 per annum.

Duties.

Regional Medical Officers are required to perform such duties as may be assigned to them from time to time by the Department, including :—

(*a*) Clinical work arising out of questions of incapacity for work or diagnosis and treatment, among insured persons ;

(*b*) Administrative work in connexion with the Insurance Medical Service.

Further particulars and forms of application may be had from the Secretary, Department of Health for Scotland, 125, George-street, Edinburgh, 2. Letters applying for forms of application should have the words "Regional Medical Officer" boldly written in the top left-hand corner of the envelope. Applications should reach the Department not later than 28th February, 1938 ; any received after that date will not be considered.

Department of Health for Scotland.

APPOINTMENT OF MEDICAL OFFICERS.

The Department of Health for Scotland are prepared to receive applications from registered Medical Practitioners (men and women) for two posts of Medical Officer.

Qualifications.

Applicants must hold the Diploma in Public Health or equivalent qualification and weight will be given to expert knowledge and experience in relation to general and fever hospital services, food inspection, child and school health, and nutrition.

Applicants must be not more than 45 years of age on 1st January, 1938.

Remuneration.

The rate of remuneration will be £750 by annual increments of £30 to £1200 per annum.

Duties.

Medical Officers are required to devote their full time to the public service and to perform such duties as may be assigned to them by the Department from time to time.

Further particulars and forms of application may be had from the Secretary, Department of Health for Scotland, 125, George-street, Edinburgh, 2. Letters applying for forms of application should have the words "Medical Officer" boldly written on the top left-hand corner of the envelope. Applications should reach the Department not later than 28th February, 1938 ; any received after that date will not be considered.

East Sussex County Mental Hospital,
HELLINGLY.

JUNIOR ASSISTANT RESIDENT MEDICAL OFFICER.

Applications are invited for the above post from duly qualified registered Medical Practitioners (unmarried).

Salary £350 a year, rising by four annual increments of £25 to £450, together with board, lodging, washing, and attendance, valued for superannuation purposes at £90 a year ; an additional £50 a year will be paid to any candidate appointed who holds the Diploma in Psychological Medicine, or a similar Diploma.

The appointment is subject to one month's notice on either side, and to the provisions of the Asylums Officers' Superannuation Act, 1909.

Applications marked "A.M.O.," giving particulars of previous experience and copies of not more than three recent testimonials, should be addressed to the Medical Superintendent not later than the 17th February, 1938.

Addenbrooke's Hospital, Cambridge.

Applications are invited for the post of HOUSE SURGEON. The appointment will be for six months from March 14th, 1938, but is terminable at an earlier date by one month's written notice on either side. Salary will be at the rate of £130 per annum, with board, residence, and laundry.

Candidates (Male), who must be unmarried and duly registered, are requested to forward their applications, stating age, qualifications, &c., together with copies of not more than four testimonials, to the undersigned on or before Wednesday, February 23rd, 1938.

J. A. BEARDSALL, Secretary-Superintendent.

Warneford General Hospital,
LEAMINGTON SPA.
(164 Beds.)

Applications are invited for the post of RESIDENT CASUALTY OFFICER AND HOUSE SURGEON to one of the Hon. Surgeons. Six months' appointment. Salary £150 per annum, with board and laundry.

Applications from qualified registered Medical Practitioners should be sent together with three recent testimonials to the undersigned by 21st February, 1938.

EDWARD L. WIRGMAN, House Governor and Secretary.

County Borough of Huddersfield.

BRADLEY WOOD SANATORIUM
FOR PULMONARY AND SURGICAL TUBERCULOSIS.

RESIDENT MEDICAL OFFICER AND ASSISTANT MEDICAL OFFICER OF HEALTH.

Applications are invited for the above appointment from registered Medical Practitioners (married or single) who have had special experience in the diagnosis and treatment of tuberculosis. A good knowledge of X ray work is essential. Salary £600, rising to £700, per annum, plus house free of rent. The post is designated for the purposes of the Local Government and Other Officers' Superannuation Act, 1922, and the person appointed will be required to satisfactorily pass a medical examination.

The engagement will be terminable on three months' notice from either side. Applications should be accompanied by copies of not more than three testimonials and addressed to JOHN M. GIBSON, B.A., M.D., D.P.H., Medical Superintendent of Hospitals and Medical Officer of Health, so as to reach him not later than the 18th February, 1938.

Forms of application are not provided.

SAMUEL PROCTER, Town Clerk.

Town Hall, Huddersfield, February, 1938.

Newcastle-upon-Tyne Education
COMMITTEE.

APPOINTMENT OF ASSISTANT SCHOOL MEDICAL OFFICER.

Applications are invited for an appointment as full-time Assistant School Medical Officer (Man). Salary £500 per annum, rising by £25 per annum to a maximum of £700 per annum in accordance with the National Scale. Applicants should have had at least three years' experience in the practice of their profession subsequent to obtaining their qualifications. Special experience in the administration of anæsthetics, also in refraction and theprescribing of spectacles, is desirable.

Form of application and particulars of the appointment may be obtained by sending a stamped addressed foolscap envelope to the Director of Education, Education Office, Northumberland-road, Newcastle-upon-Tyne, 2.

Applications will be received up toand including 25th February, 1938.

THOS. WALLING, Director of Education.

Education Office, Northumberland-road, Newcastle-upon-Tyne.

The University of Liverpool.

The Council invites applications for the following posts:—Two DEMONSTRATORSHIPS (ungraded) in PHYSIOLOGY. Salary £300 per annum. The appointments will take effect as from 1st October, 1938.

Applications should be received by the undersigned not later than 1st April, 1938, from whom further particulars may be obtained.

STANLEY DUMBELL, Registrar.

February, 1938.

Royal Eye Hospital, Pevensey-road,
EASTBOURNE.

NON-RESIDENT HOUSE SURGEON required to commence duty forthwith. Salary £100 per annum and allowance in lieu of board-residence £175 per annum.

Applications, stating age, qualifications, and Ophthalmic experience, together with recent testimonials, should reach the undersigned as soon as possible.

Before engagement candidates have to be interviewed by appointment by the Hon. Surgeon, from whom further particulars could be obtained in person.

H. BYGRAVE, Hon. Secretary.

The University of Manchester.

SIR HENRY ROYCE RESEARCH FELLOWSHIP.

Applications are invited for the Sir Henry Royce Research Fellowship founded under the Will of the late Sir Frederick Henry Royce, Bart. The Fellowship, for research on *either* "The Common Cold, its nature, prevention and cure," *or* "Influenza, its nature, prevention, and cure" is of the value of £500 per annum and will be tenable in the first instance for a period of three years. Applicants must be graduates of a British University, and must be either registered Medical Practitioners or otherwise qualified to undertake research in the subjects specified. Further particulars and forms of application may be obtained from the Registrar, the University, Manchester, 13.

All applications to be made on a prescribed form must be sent to reach him not later than February 28th.

Kettering and District General
HOSPITAL.
(108 Beds.)

Applications are invited for the post of HOUSE PHYSICIAN. Salary £150 per annum, with board, residence, and laundry. Candidates must be fully qualified and registered.

The appointment is for six months, with eligibility for a further period.

Applications, stating age, nationality, and qualifications, together with copies of three testimonials, to be sent to the undersigned as soon as possible.

G. W. JACKSON, Secretary-Superintendent.

County Borough of Blackburn.

ASSISTANT MEDICAL OFFICER OF HEALTH.

Applications are invited for the post of Assistant Medical Officer of Health (Male), whose principal duties will be to act as Clinical Tuberculosis Officer for the Town and Resident Medical Officer of the Corporation Hospital in which cases of tuberculosis and other infectious diseases are treated.

Applicants must not be less than twenty-five years of age and, subsequent to qualification, shall (1) have had at least three years' experience in the practice of their profession, (2) have spent in general clinical work a period of not less than eighteen months, of which not less than six months have been spent in a hospital as resident officer in charge of beds occupied by general medical or surgical cases, and (3) have received special training for a period of not less than six months in the diagnosis and treatment of tuberculosis.

Preference will be given to candidates who, in addition to the requirements mentioned above, hold a Diploma in Public Health, and who have held a resident post in an Infectious Diseases Hospital.

The salary will be £600 per annum together with board and residence. Married quarters are not available.

A form of application and list of duties may be obtained from the Medical Officer of Health, Public Health Offices, Victoria-street, Blackburn, to whom applications, together with copies of three recent testimonials, endorsed "Assistant Medical Officer of Health," should be sent not later than noon on Saturday, the 19th day of February, 1938.

Canvassing directly or indirectly will be a disqualification.

CHAS. S. ROBINSON, Town Clerk.

Town Hall, Blackburn, 28th January, 1938.

Argyll and Bute District Mental
HOSPITAL, LOCHGILPHEAD.

Applications are invited for the post of RESIDENT ASSISTANT MEDICAL OFFICER (Male). Commencing salary £300 to £350 per annum, according to previous experience and special qualifications. An additional £50 per annum will be paid if in possession of the D.P.M. Furnished apartments will be provided, with board and laundry.

The appointment will be subject to the provisions of the Asylum Officers' Superannuation Act, 1909.

Applications, stating age and experience, accompanied by seven copies of testimonials, to be addressed to the Clerk to the Joint Board of Management, County Offices, Lochgilphead, not later than 16th February, 1938.

City of Birmingham.

SELLY OAK HOSPITAL. (520 Beds.)

JUNIOR MEDICAL OFFICER (Male).

Applications are invited from fully-equipped Medical Practitioners for the whole-time appointment of Junior Medical Officer (Male) at the Selly Oak Hospital, Birmingham. The appointment will be for a period of six months in the first instance, but may be extended at the end of that time for a further period of not exceeding six months.

Salary at the rate of £200 per annum, and full residential emoluments.

Further particulars may be obtained from the Medical Superintendent at Selly Oak Hospital, to whom applications stating age, experience, and qualifications, with copies of recent testimonials, should be forwarded not later than Wednesday, 23rd February, 1938.

F. H. C. WILTSHIRE, Town Clerk.

The Council House, Birmingham, February, 1938.

County Borough of Southend-on-Sea.

SOUTHEND MUNICIPAL HOSPITAL.

The Health Committee of the Town Council invite applications for the appointment of an ASSISTANT MEDICAL OFFICER (Grade 2) at their Municipal Hospital situated at Rochford, Essex (Beds 475). Salary £325 per annum, with full residential emoluments valued for superannuation purposes at £100 per annum.

The duration of appointment is limited to one year.

Applicants must have had previous experience in the administration of Anæsthetics.

Applications, on forms to be obtained from the Medical Superintendent, Southend Municipal Hospital, Rochford, Essex, should be returned to him on or before Monday, 21st February, 1938.

H. J. WORWOOD, Town Clerk.

Town Clerk's Office, Southend-on-Sea.

West Sussex County Mental Hospital.

APPOINTMENT OF MEDICAL SUPERINTENDENT.

The Visiting Committee are desirous of receiving applications from duly registered and qualified Medical Practitioners for the Office of Medical Superintendent from candidates whose age does not exceed forty-five.

The accommodation of the Hospital is for 1045 patients.

The initial salary will be £1100 a year rising by two annual increments of £50 each to £1200 with unfurnished house, the Committee paying rates and taxes, light washing, coals, and garden produce.

The candidate appointed will be required to enter upon his duties on, or before 1st June, 1938, and to give up the whole of his time to the duties of his office, and not to attend to, or engage in, any professional or other business, or employment, except that of the Hospital, and not to have any interest, direct or indirect, in any establishment or house for the reception of any mental or other patients.

Applications, stating age, qualifications, and experience, accompanied with copies of testimonials, not exceeding three (and which will not be returned) to be sent to me endorsed "Medical Superintendent" on or before the 23rd February, 1938.

Personal canvassing is strictly prohibited.

G. H. B. PETERS, Clerk to the Committee.

9, West Pallant, Chichester, Sussex, 29th January, 1938.

Surrey County Council.

ASSISTANT MEDICAL OFFICER.

Applications are invited for the appointment of an Assistant Medical Officer (Male). Applicants must possess a qualification in Public Health, and have had experience in the Medical Inspection of School-children, in Maternity and Child Welfare, and in the examination and certification of mentally defective children. The officer appointed will be required to undertake such other Public Health duties as may be allocated to him. He will be on the staff of the County Medical Officer of Health, must reside in the County of Surrey, and devote his whole time to the work. Salary £600 per annum, rising by annual increments of £20 to £700 per annum. Travelling expenses in accordance with the Council's scale will be allowed.

The appointment will be subject to the approval of the Ministry of Health and of the Board of Education, to the successful candidate passing a medical examination, to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and to the Staffing Regulations of the Council, which provide, inter alia, that appointments may be determined at any time by three months' notice.

Applications, stating age, qualifications, and experience, together with copies of three recent testimonials, should be made on the prescribed forms and sent to the County Medical Officer of Health, County Hall, Kingston-upon-Thames, from whom copies of the application form may be obtained and to whom any inquiries relating to the appointment should be addressed.

Last day for receipt of applications, Wednesday, 16th February, 1938.

Canvassing, directly or indirectly, will disqualify.

DUDLEY AUKLAND, Clerk of the County Council.

County Hall, Kingston-upon-Thames, 1st February, 1938.

Derbyshire County Council.

ASSISTANT COUNTY MEDICAL OFFICER OF HEALTH.

Applications are invited for the post of Assistant County Medical Officer of Health. Candidates must possess a qualification in Public Health, have had both practical and administrative experience of the medical inspection of school-children, the organisation of school clinics and infant welfare centres, and have a sound knowledge of the provisions of the Midwives Acts and the rules of the Central Midwives Board.

The officer appointed will be required to devote the whole of his time to the duties of the office and to work under the direction of the County Medical Officer.

The salary will be £700 rising by annual increments of £25 to £800 a year, and the appointment will be subject to the approval of the Minister of Health and the Board of Education.

The appointment will be a designated post under the Local Government and Other Officers' Superannuation Act, and the successful candidate will be required to pass a medical examination.

The appointment will be determinable by three months' notice on either side.

Applications, stating age, qualifications, and previous experience, together with copies of not more than three recent testimonials, must be received by the undersigned not later than 3rd March, 1938. Application forms are not provided.

W. M. ASH, County Medical Officer of Health.

County Offices, Derby, 3rd February, 1938.

Kent and Sussex Hospital,

ROYAL TUNBRIDGE WELLS.

(210 Beds.)

Applications are invited for the appointment of HOUSE PHYSICIAN (Male). Salary £150 per annum. Board, residence, and laundry in the Hospital.

The Hospital is approved by the University of London for the purpose of the M.B. examination.

Successful candidate will be required to take up duty on 1st March, 1938, and applications, stating qualifications, together with certificate of registration, and copies of not more than three recent testimonials, should be sent to the undersigned immediately.

TOM B. HARRISON, Superintendent-Secretary.

3rd February, 1938.

County Borough of Huddersfield.

ASSISTANT SCHOOL MEDICAL OFFICER.

Applications are invited for the above post, for which a good knowledge of diseases of children and experience in bacteriology are essential.

Salary according to scale—£500 per annum increasing to £700. The commencing salary will be based on the candidate's previous experience.

The post is designated under the Superannuation Act, 1922, and the appointment, therefore, is subject to a satisfactory medical examination.

Applications, stating age, and giving full particulars regarding training, qualifications and appointments held since qualification, should be forwarded to the Medical Officer of Health, along with copies of two recent testimonials, so as to reach him not later than Friday, the 25th February.

Cannock Urban District Council.

APPOINTMENT OF ASSISTANT MEDICAL OFFICER OF HEALTH AND ASSISTANT SCHOOL MEDICAL OFFICER.

The above Council invites applications from registered Medical Practitioners, of under thirty-five years of age, for the above-named post. The salary will be at the rate of £550 per annum, rising, subject to satisfactory service, by annual increments of £25 to £700 per annum, plus a travelling allowance of £30 per annum. Applicants must have had at least three years' experience in the practice of their own profession and special experience of practical midwifery, ante-natal, and maternity and child welfare work, and hold a diploma in Public Health.

The person appointed will be required to devote the whole of his or her time to the duties, which will be performed under the direction of the Medical Officer of Health, and will consist chiefly of School Medical and Maternity and Child Welfare work, together with such other duties relating to Public Health as may be required.

The appointment is subject to the approval of the Board of Education and will be determinable by one month's notice on either side.

The Council has, subject to the approval of the Ministry of Health, decided to adopt the Local Government and Other Officers' Superannuation Act, 1922, as from the 1st April, 1938, and the successful candidate will be required satisfactorily to pass a medical examination.

Sealed applications, on forms to be obtained from the undersigned (upon receipt of a stamped addressed foolscap envelope), accompanied by copies of three recent testimonials and endorsed "Assistant Medical Officer of Health" must be delivered to the undersigned not later than Wednesday, the 23rd February.

Canvassing, directly or indirectly, will be deemed a disqualification. WM. C. SPEEDY, Clerk of the Council.

Council House, The Green, Cannock, February, 1938.

Joint Committee of the County Councils

OF DURHAM AND NORTHUMBERLAND AND THE COUNTY BOROUGH COUNCILS OF GATESHEAD AND NEWCASTLE-UPON-TYNE.

HOUSE SURGEON AND JUNIOR CLINICAL ASSISTANT (Male, non-resident.)

Applications are invited from duly qualified Medical Practitioners for the post of House Surgeon and Junior Clinical Assistant to the Joint Committee's Venereal Diseases Clinic and associated beds in the Newcastle General Hospital. Duties include assistance in the male and female out-patients' departments and in the in-patients' departments and commence 1st April, 1938. Appointment is tenable for one year. Salary £250 per annum plus an allowance of £100 per annum in lieu of residential emoluments. (Lunch and tea will be provided when on duty.)

Applications, stating age, nationality, qualifications, special experience in Venereal Disease work (if any) should be forwarded to Dr. A. E. W. MCLACHLAN, Clinical Medical Officer, Joint Committee's Clinic, Newcastle General Hospital, Westgate-road, Newcastle-upon-Tyne, 4, on or before 26th February, 1938.

County Borough of Merthyr Tydfil.

APPOINTMENT OF ASSISTANT MEDICAL OFFICER OF HEALTH, AND ASSISTANT SCHOOL MEDICAL OFFICER.

Applications are invited from Medical Women (unmarried or widowed), under the age of forty, for the above post. The person appointed must be a registered Medical Practitioner, and registered in the Medical Register as the holder of a Diploma in Sanitary Science, Public Health, or State Medicine. Preference will be given to a candidate who :—

(1) Has had at least three years' experience in the practice of her profession ;
(2) Has held the appointment of Resident Medical Officer in a Maternity Department for a period of not less than six months ;
(3) Has had not less than one year's continuous experience in some branch of Obstetric work.

The duties will include School Medical Inspection, Supervision of Midwives, attendance at Ante-Natal and Infant Welfare Centres, and other Public Health duties as may, from time to time, be prescribed. The duties of the respective Offices will be carried out under the general direction of the Medical Officer of Health.

The salary will be a the rate of £500 per annum, rising by annual increments of £25, to a maximum of £700 per annum, together with out-of-pocket travelling expenses.

Applications, together with copies of three recent testimonials must reach the undersigned, on or before the 26th February, 1938.

T. H. STEPHENS, Medical Officer of Health.

Town Hall, Merthyr Tydfil, 5th February, 1938.

The Staffordshire General Infirmary,
STAFFORD.
(143 Beds.)

SECOND HOUSE SURGEON required immediately. Salary £175 per annum, with board-residence.

Applications, stating age and experience, accompanied with copies of three recent testimonials, should be sent to me on or before first post on Thursday, the 17th instant.

A. E. COLLINS, Secretary.

Stafford, 1st February, 1938.

West Kent General Hospital
(Incorporated),
MAIDSTONE. (136 Beds.)

Applications are invited for the post of HOUSE SURGEON, who must be a Male of British nationality, and unmarried.

Salary at the rate of £175 per annum, with board, apartments, and laundry.

Candidates must possess registered qualifications.

Applications, stating qualifications and experience, together with copies of testimonials, should be sent to the undersigned on or before 1st March, 1938.

The successful candidate will be required to take up residence on 10th March, 1938.

EDWARD J. GREGG, House Governor and Secretary.

Doncaster Royal Infirmary and
DISPENSARY.
(185 Beds.)

CASUALTY HOUSE SURGEON (Male) required immediately. Salary at the rate of £175 per annum, with residence, board, and laundry.

Applications, accompanied by not more than three testimonials, to be sent to the Secretary-Superintendent.

General Infirmary, Salisbury.
(Voluntary Hospital, 194 Beds, now in course of extension to 215 Beds.)

HOUSE SURGEON (Male) required to commence duty 17th March, 1938.

The appointment is for six months, with the right of applying for re-appointment for a further period of six months. Candidates must be unmarried, fully qualified, and registered.

Salary £125 per annum, with board-residence.

Applications, with copies of testimonials, to be sent to the House Governor and Secretary, from whom a copy of the rules may be obtained.

Lancashire County Council.

SCHOOL MEDICAL AND CHILD WELFARE DEPARTMENT.

APPOINTMENT OF AN ASSISTANT COUNTY MEDICAL OFFICER.

The Lancashire County Council invite applications from registered Medical Practitioners for the post of an Assistant County Medical Officer.

Applicants must not be over forty years of age and must possess the Diploma in Public Health.

The duties of the post include the Medical Inspection of school-children; work under the Maternity and Child Welfare Acts; general Public Health work; and such other duties as may from time to time be imposed by the County Council.

The candidate appointed will be required to devote his whole time to the service of the County Council, to pass a medical examination, and to contribute to the Council's Superannuation Fund. The salary will be £800 a year, rising subject to satisfactory service, by annual increments of £50, to a maximum of £1000 a year, together with travelling expenses.

Applications must be made upon a form which can be obtained, together with further particulars, from the County Medical Officer of Health, School Medical and Child Welfare Department, County Offices, Preston, to whom the completed forms should be returned not later than the 1st March, 1938. All communications must be endorsed "Assistant County Medical Officer."

Any form of canvassing is strictly forbidden, and will disqualify.

GEORGE ETHERTON, Clerk of the County Council.

County Offices, Preston, February, 1938.

Prifysgol Cymru, University of Wales.
WELSH NATIONAL SCHOOL OF MEDICINE.

The following scholarships will be awarded by the University of Wales in the session 1938–1939, if suitable candidates are forthcoming:—

The MRS. JOHN NIXON RESEARCH SCHOLARSHIP of the value of £150.

The LORD MERTHYR RESEARCH SCHOLARSHIP of the value of £200.

The EWEN MACLEAN RESEARCH SCHOLARSHIP of the value of £150.

Candidature for the Mrs. John Nixon Research Scholarship and the Lord Merthyr Research Scholarship is limited to graduates of the University of Wales. Applications for any of the above-named Scholarships must reach the Registrar, University Registry, Cathays Park, Cardiff, not later than September 1st, 1938. Information regarding the conditions of tenure of the Scholarships may be obtained from the Registrar.

City of Plymouth.

CITY GENERAL HOSPITAL. (570 Beds.)

Applications are invited from duly qualified and registered Medical Practitioners for the following posts:—

(1) ASSISTANT MEDICAL OFFICER.

Salary at the rate of £300 per annum, with full residential emoluments. All fees received by the Officer must be refunded to the Council.

The appointment will be for a period of twelve months, terminable by one month's notice on either side. Previous experience in a maternity hospital or in the maternity wards of a general hospital is essential. As the duties of the post also include general work, preference will be given to candidates who have had such experience.

(2) JUNIOR ASSISTANT MEDICAL OFFICER.

Salary at the rate of £250 per annum, with full residential emoluments. All fees received by the Officer must be refunded to the Council.

The appointment will be for a period of six months in the first instance, and renewable for a further period of six months, and will be terminable by one month's notice on either side.

Forms of application may be obtained from the undersigned and should be forwarded, together with copies of not more than three recent testimonials, not later than 25th February.

T. PEIRSON, Medical Officer of Health.

Town Hall, Stonehouse, Plymouth, 5th February, 1938.

Swansea General and Eye Hospital.
(336 Beds.)

Applications are invited for the appointment of whole-time ASSISTANT PATHOLOGIST (Male or Female), non-resident. Salary £500, rising to £600, per annum.

Candidates must be graduates in medicine of a recognised British University or members of a College of Physicians of the British Isles.

Duties to commence 4th April, 1938.

Applications, stating age, nationality, qualifications, and experience, together with copies of three recent testimonials, to be forwarded to the undersigned on or before 28th February.

O. C. HOWELLS, Secretary-Superintendent.

Royal Victoria Hospital, Folkestone.
(Extending to 155 Beds.)

The Committee of Management invite applications for the appointment of an HONORARY ANÆSTHETIST.

Candidates must be:—

(1) Doctor of Medicine or a Graduate in Medicine of one of the Universities of Great Britain, Ireland, or one of His Majesty's Dominions; or

(2) A Fellow, Member, or Licentiate of the Royal College of Physicians of London, Edinburgh or Ireland, and who holds the Diploma of Anæsthetics.

Applications, stating age, qualifications, and experience, and enclosing copies of three recent testimonials, to be forwarded to the undersigned not later than the 1st March, 1938.

F. T. WILTON, Secretary-Superintendent.

7th February, 1938.

North Staffordshire Royal Infirmary,
STOKE-ON-TRENT.
(400 Beds.)

HOUSE SURGEON (GENERAL).

The Committee invite applications for the above post.

Salary at the rate of £150 per annum, with board, residence, and laundry.

The appointment will be made for six months, renewable.

Previous hospital surgical experience essential.

Applications, stating age and experience, with copies of two recent testimonials, to be sent to the undersigned, immediately.

By order,

W. STEVENSON, Secretary and House Governor.

7th February, 1938.

Herefordshire General Hospital,
HEREFORD.
(152 Beds.)

Applications are invited for the post of HOUSE SURGEON (Male) in charge of Casualty and Ear, Nose, and Throat Departments.

Salary at the rate of £100 per annum, with board, residence, and laundry.

Applications, stating age and qualifications, together with copies of three recent testimonials, should be sent to the undersigned on or before February 21st.

T. W. UPTON, Secretary.

The St. Helens Hospital.

Applications are invited for the position of JUNIOR HOUSE SURGEON (Male) to this Hospital at a salary of £150 per annum, plus, board, residence, and laundry.

Applications, stating age and nationality, accompanied by copies of three recent testimonials, to be sent to the Secretary, the St. Helens Hospital, St. Helens, Lancashire, not later than Tuesday, the 22nd February.

The successful applicant will be required to commence duties on the 1st March next.

City of Leicester.

RESIDENT MEDICAL OFFICERS.

The Health Committee of the City of Leicester invite applications for the position of Two Resident Medical Officers (Male) at their CITY GENERAL HOSPITAL for a period of six months, renewable, if satisfactory, for a further six months.

Successful candidates will be required to commence 9th March and 1st April, respectively. Preference will be given to those with, or reading for, high qualifications.

The Hospital is a modern building with 550 beds, four Resident Medical Officers and one Deputy Medical Superintendent. The work that will be required of these Resident Medical Officers will be chiefly Medical; there may, however, be some general Surgical work.

Salary £300 per annum, together with full residential emoluments.

Further particulars of the appointment may be obtained from the undersigned, and applications (on forms supplied), accompanied by copies of three recent testimonials, must be received not later than 21st February, endorsed "R.M.O.," addressed to the undersigned.

E. K. MACDONALD, Medical Officer of Health.

Health Department, Grey Friars, Leicester.

Kent and Canterbury Hospital,

CANTERBURY.

The Board of Management will shortly proceed to the election of an HONORARY DERMATOLOGIST.

Candidates must be engaged solely in the practice of Dermatology.

Applications, with copies of three testimonials, should be addressed to the undersigned, from whom particulars of the appointment can be obtained. The closing date for the receipt of applications is 7th March, 1938.

J. F. KENT, Superintendent and Secretary.

Surrey County Council.

PUBLIC HEALTH DEPARTMENT.
KINGSTON COUNTY HOSPITAL. (530 Beds.)

RESIDENT ASSISTANT MEDICAL OFFICER.

Applications are invited from registered Medical Practitioners for the appointment of Resident Assistant Medical Officer at the Kingston County Hospital, Kingston-on-Thames.

The Medical Officer appointed should preferably have had previous experience as House Physician or House Surgeon.

The appointment is for a period of six months, renewable for a further period of six months, and the salary is at the rate of £250 per annum, together with full residential emoluments valued at £125 per annum, making an aggregate of £375 per annum.

Applications, stating age, qualifications, and experience, and enclosing copies of not more than three recent testimonials, should be addressed to the Medical Superintendent, Kingston County Hospital, Wolverton-avenue, Kingston-on-Thames, so as to be received not later than 23rd February, 1938.

DUDLEY AUKLAND, Clerk of the Council.

County Hall, Kingston-upon-Thames, 4th February, 1938.

King Edward VII. Hospital, Windsor.

(200 Beds.)

HOUSE SURGEON required, beginning March (preferably with Ear, Nose, and Throat experience), also a HOUSE PHYSICIAN. Applicants must be fully qualified men or women and registered.

Salary at the rate of £120 per annum, together with board, residence, and laundry.

Applications, stating age, qualifications, and experience, accompanied by testimonials, should be sent to the undersigned not later than February 19th.

The Surgical appointment is recognised by the Royal College of Surgeons of England for the six months' training required of candidates before admission to the final examination for the Fellowship.

A. E. CHURCHER, Secretary.

The Queen's University of Belfast.

LECTURER IN ANATOMY.

Applications are invited by Wednesday, 2nd March, 1938, for the post of Lecturer in Anatomy, at a salary of £450 per annum with contributory pension; the duties of the lecturer will include teaching in Embryology to Medical and Science students; duties to begin on 1st April, 1938.

Further particulars may be obtained from

RICHARD H. HUNTER, Secretary,
Queen's University, Belfast.

3rd February, 1938.

Ancoats Hospital, Manchester, 4.

CASUALTY OFFICER (Lady or Gentleman), twelve months' appointment. Applicants who have passed the Primary Fellowship Examination of one of the Royal Colleges of Surgeons will be preferred.

Salary £175 per annum, with board, residence, laundry, &c. The successful candidate will do duty for the Resident Surgical Officer at alternate week-ends and other scheduled times.

Applications, stating age, qualifications, experience, and full particulars to be forwarded to the undersigned on or before 23rd February, together with copies of three recent testimonials.

By order of the Board,
HERBERT J. DAFFORNE, General Supt. and Secretary.

Cumberland Infirmary, Carlisle.

(151 Beds.)

Applications are invited from men only for the following posts:—

HOUSE PHYSICIAN,
TWO HOUSE SURGEONS,
HOUSE SURGEON to SPECIAL DEPARTMENTS
(EYE, EAR, NOSE, AND THROAT)

Appointments are for six months from the 1st April, 1938, and holders will be eligible for a further term. Salary in each case at the rate of £160 per annum, with board, residence, and laundry

The posts of HOUSE SURGEON are recognised by the Royal College of Surgeons of England under the regulations for the Final Fellowship Examination.

Applications on forms obtainable from the undersigned, together with copies of not more than four testimonials, to be received not later than 28th February.

J. S. RIPPIER, Secretary-Superintendent.

7th February, 1938.

The Prince of Wales's Hospital,

Greenbank-road, PLYMOUTH.
(Formerly South Devon and East Cornwall Hospital.)
(264 Beds.)

Applications are invited for the post of RESIDENT ANÆSTHETIST and HOUSE SURGEON to the Special Departments.

Salary £120 per annum, with board, residence, and laundry.

Appointment is tenable for six months and is subject to renewal. Duties to commence 10th March.

The Hospital is officially recognised for the surgical practice required before admission to the Final Fellowship Examination of the Royal College of Surgeons of England.

Applicants must be registered under the Medical Acts. Applications, stating age and qualifications, with copies of three recent testimonials, to reach the undersigned not later than 25th February.

7th February, 1938. ARTHUR R. CASH, Secretary.

Kelling Sanatorium, Holt, Norfolk.

SECOND ASSISTANT RESIDENT MEDICAL OFFICER (Male), unmarried, required at above Sanatorium to take up duties on 1st April next. First appointment twelve months (renewable), with three months' notice on either side. Salary £350, with apartments, board, and laundry.

Candidates must be duly registered Medical Practitioners. Applications, in candidate's own handwriting, stating age and qualifications (with one copy of three recent testimonials), to be sent to the Medical Superintendent, Kelling Sanatorium, Holt, Norfolk, not later than March 5th.

Borough of Gravesend.

ASSISTANT MEDICAL OFFICER OF HEALTH AND SCHOOL MEDICAL OFFICER.

Applications for this appointment are invited from registered Medical Practitioners of not more than forty years of age. Commencing salary £600 per annum, rising by two annual increments of £50 to a maximum salary of £700 per annum.

Candidates must have had at least three years' professional experience and special experience in Antenatal and Maternity and Child Welfare Work, and the work of the School Medical Service and Oculist. The possession of a Diploma in Public Health is necessary.

The person appointed will be required to devote full time to the duties, and not to engage in private practice. Duties to be performed under the direction of the Medical Officer of Health, and to include work in connexion with Air Raid Precautions.

The post will be designated as established for the purposes of the Local Government and Other Officers' Superannuation Act, 1922, and the usual deduction of 5 per cent. will be made from salary. The successful candidate will be required to pass a medical examination by the Medical Officer of Health or an independent medical referee appointed by the Council.

Applications must be made on forms obtainable from the undersigned to whom they must be returned (accompanied by copies of three recent testimonials) not later than the first post on Monday, 28th February, 1938, in envelopes endorsed "Assistant Medical Officer."

Canvassing, directly or indirectly, will disqualify.

H. H. BROWN, Town Clerk.

Town Clerk's Office, 4, Woodville-terrace, Gravesend.

7th February, 1938.

Noble's Isle of Man Hospital and

DISPENSARY, DOUGLAS, ISLE OF MAN.
(112 Beds.)

The Committee of Management invite applications for the post of Male RESIDENT HOUSE SURGEON. Candidates must be single, have double qualifications, and be registered under the Medical Acts. The duties, in addition to Ward and Dispensary Work, comprise about 300 visits per annum to out-patients in their own homes. Salary (with board and laundry in addition) £175 per annum, which is usually augmented to about £250 per annum through opportunities which arise for special services.

Applications, stating age and experience, with copies of recent testimonials, must reach the undersigned before 17th February.

E. K. KELLY, Hospital Secretary.

Westmoreland-road, Douglas, Isle of Man,
2nd February, 1938.

Chesterfield and North Derbyshire

ROYAL HOSPITAL.
(220 Surgical and Medical Beds.)

CASUALTY OFFICER AND FRACTURE HOUSE SURGEON.

Applications are invited from fully qualified Men for the above post, to commence 1st March, 1938.

The appointment is for six months. Salary at the rate of £200 per annum, with board, apartments, and laundry.

The duties include the post of House Surgeon to the Director of the Fracture Clinic, under whose care the whole of the fractures, both in- and out-patients, are treated and deputy to the Resident Surgical Officer.

Candidates for this post should have had special fracture experience.

Applications, stating age, together with copies of three recent testimonials, should be sent to the undersigned as early as possible. M. H. BOONE, Superintendent and Secretary.

8th February, 1938.

Leeds Public Dispensary and Hospital.

Applications are invited for the post of:—
HOUSE PHYSICIAN (Male).

Appointment for six months. Salary at the rate of £150 per annum, with board, residence, and laundry.

Applications, with copies of three recent testimonials, to be sent on or before Friday, 4th March, addressed to the undersigned, Public Dispensary and Hospital, North-street, Leeds, 2.

CHARLES F. J. MAURY, Secretary and Superintendent.

Glasgow Corporation Mental Hospitals.

JUNIOR ASSISTANT MEDICAL OFFICER (Male) wanted for the HAWKHEAD MENTAL HOSPITAL. Previous experience unnecessary, but preference will be given to one who has engaged in pathological work or has been house physician; ample opportunity afforded for research. Salary to commence at £300 per annum, with board, lodging, and laundry.

Full particulars on application to the Medical Superintendent, Hawkhead Mental Hospital, Crookston-road, Glasgow, S.W.2.

Royal Victoria Infirmary,

NEWCASTLE-UPON-TYNE.

The House Committee by Resolution declare vacant the office of HONORARY ASSISTANT SURGEON.

According to statutory provision every candidate must be a registered Graduate in Surgery of any University recognised by the General Council of Medical Education and Registration of the United Kingdom, or a registered Fellow, Member, or Licentiate of one of the Royal Colleges of Surgeons of the United Kingdom, provided that he is practising as a Surgeon and not as a General Practitioner.

Applications should state age and appointments held at present time, and must be received by the House Governor and Secretary, Royal Victoria Infirmary, Newcastle-upon-Tyne, not later than Thursday, 24th February, 1938.

The appointment will be made on the 3rd March, 1938.

Personal canvassing will be considered a disqualification for office. S. DUNSTAN, House Governor and Secretary.

4th February, 1938.

Royal Manchester Children's Hospital,

PENDLEBURY.

Applications are invited for the posts of Two Non-resident ASSISTANT MEDICAL OFFICERS at the Out-patients' Department, Gartside-street, Manchester. Salary at the rate of £150 per annum, and the appointments are for a period of six months, one from 1st March, 1938, and one from 1st April, 1938. Candidates must be on the Medical Register.

Particulars of duties can be obtained from the Secretary. The hours of duty are from 9 A.M. till 1 P.M., or until the work of the Dispensary is finished. Patients' attendances number about 100,000 per annum.

Applications, stating age, and accompanied by copies of not more than three testimonials, to be sent to the undersigned immediately. Canvassing, directly or indirectly, may disqualify.

By Order,
H. HEARDMAN, Secretary.

Essex County Council.

JUNIOR ASSISTANT MEDICAL OFFICER.

The County Council of the Administrative County of Essex invite applications for the appointment of Junior Assistant Medical Officer at the BLACK NOTLEY SANATORIUM, near BRAINTREE.

This Sanatorium has 300 beds for the treatment of pulmonary and non-pulmonary tuberculosis in men, women, and children, and has all modern facilities for diagnosis and treatment, together with a staff of visiting Specialists.

The appointment is for a period of one year, and the salary will be at the rate of £250 per annum, together with board, lodging, and laundry. The successful applicant will be required to pass a medical examination, and will be subject to the Council's Sick Pay Rules and Regulations, a copy of which will be forwarded on application.

Applications in candidate's own handwriting, stating age, qualifications, and experience, accompanied by copies of not more than three recent testimonials (which will not be returned), should be addressed to me and delivered at the County Hall, Chelmsford, not later than 10 A.M. on Thursday, the 24th February, 1938.

E. S. HOLCROFT, Clerk of the County Council.

County Hall, Chelmsford, 7th February, 1938.

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The Evans Biological Institute invite

applications from well-qualified experienced BACTERIOLOGISTS for a senior appointment in the Institute.

Candidates should have a medical qualification and a knowledge of Practical Serology although not essential, would be an advantage. Ample facilities will be provided for research and the appointment carries excellent salary prospects.

Applications stating qualifications, &c., should be made to the Medical Director, Evans Biological Institute, Runcorn, Cheshire.

The Royal Army Medical Corps

ASSOCIATION, 85, Eccleston-square, S.W.1 (Telephone: Victoria 2722), supplies qualified Dispensers, Book-keepers, Laboratory Assistants, Sanitary Assistants, Male Nurses, Mental and Special Treatment Orderlies, Dental Clerk Orderlies, Porters, Caretakers, &c., without charge to respective employers

Typewriting.—Specialists in Typing

Medical and Scientific Papers, Lectures, Theses, and Books. Highest recommendations. Shorthand typists always available. Proof-reading, indexing. Translations in all European languages.—Margaret Watson Ltd., 16, Palace Chambers, Bridge-street, S.W.1. WHItehall 3838.

Radiologist, formerly Assistant

Institute Radiologic, Clinic Surgical, University Berlin, Directors Sauerbruch-Chaoul. Eight years specialised diagnostic radiologic, wishes to find whatever collaboration.—Address, Italia, Roma, Via Sicilia 50 Dr. Tischtschenko.

Secretary-Housekeeper, 33, Hospital

and Domestic Science trained. 10 years excellent personal reference with well-known specialist. Shorthand, typewriting.—Mrs. BOUCHER, LTD., 6, Basil-street, S.W.3.

Dispenser-Secretary (Qualified).—

nursing experience, typing, book-keeping, &c., seeks Post in London or surrounding counties.—Address, No. 364, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

Laboratory Technician, desires post.

Bacteriological and biochemical examination of specimens. Expert in Hæmatology and photomicrography. Qualified X ray operator. If necessary, can bring complete laboratory equipment.—Address, No. 362, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

Research Worker, with special training

in Asthma investigation, would like to coöperate with physician requiring assistance.—Address, No. 363, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

Partner wanted, not under 30, M.R.C.P.

preferred, for Specialised Consulting Practice in London. No night work. Share offered one-third, yielding approximately £1000 per annum.—Further details from No. 357, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

Purchase of Medical Practices

ASSISTANCE SCHEME. Write for full particulars to T. A. GREATOREX, LTD., 2, Tailor's-court, Broad-street, Bristol, 1.

Resident Patients.—Doctors desiring

accommodation for private patients (mental, neurasthenic, invalid, &c.) may have, post free, illustrated BOOKLET describing residences, &c., of numerous colleagues in all parts—town, country, and seaside—who receive such patients.—Apply, Manager, British Medical Bureau, Tavistock House South, Tavistock-square, London, W.C.1

London.—Cora Hotel,

Upper Woburn-place, near B.M.A. Headquarters. Accommodates 235 visitors. Modern comforts.
Excellent table. A.A. and R.A.C. recommended.
Room, bath, and table d'hôte breakfast, 8s. 6d.
A few rooms 9s. 6d. and 10s. 6d. per person.

Harley Street and District.—A number

of excellent CONSULTING ROOMS are available for full and part-time use at moderate rents. Particulars on application.—ELGOOD & CO., 10, Henrietta-street, Cavendish-square, W.1. Lang. 2601.

HARLEY STREET AND MEDICAL DISTRICT

For all types of available accommodation.

BERTRAM & CO.

Surveyors and Estate Agents.

43, New Cavendish-street, W.1. Welbeck 3703.

Harley Street.—Small period house,

convenient, producing income, easily run, good repair, £3500, part could remain.—Address, No 358, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

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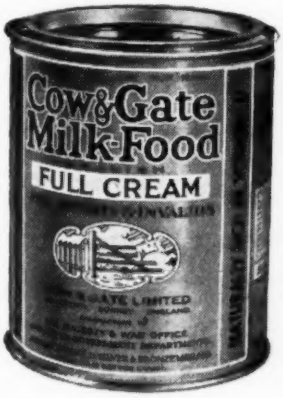

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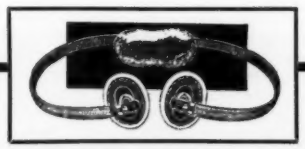

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used with unvarying success by the Medical Profession in all parts of the world for over 80 years.

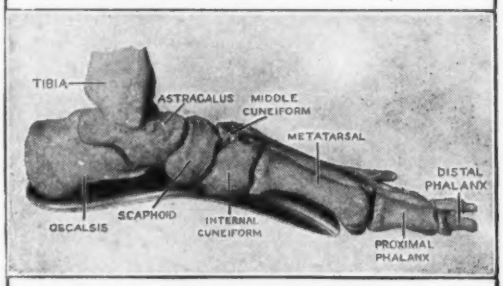
Always insist on "Dr. Collis Browne's."

THERE IS NO SUBSTITUTE

SERVICE FOR DOCTORS

A series of advertisements shewing how Doctors can obtain willing and efficient help in relieving and correcting various forms of

PATIENTS' FOOT TROUBLES



1. Weakness in Longitudinal Arch

The patient complains that he or she becomes quickly tired from standing or walking. The above diagram shews how anatomically correct is Scholl's Foot Eazer which relieves the strain, and ultimately corrects the trouble. Doctors can always rely on the co-operation of Scholl's trained Foot Experts at any of Scholl's depots. Enquiries from doctors are invited at Scholl headquarters: Scholl Mnfg. Co., Ltd., 188-194 St. John Street, London, E.C.1.

SCHOLL'S FOOT COMFORT SERVICE

CALEDONIAN

How We Assist in the Purchase of Medical Practices

Scotland's Oldest Insurance Company is prepared to assist Doctors in the buying of Medical Practices or Partnerships. The purchase price is repayable over a term of years, and a Life Assurance Policy is taken out as a collateral security. This scheme makes it unnecessary for a Doctor to approach his friends to act as guarantors, and enables him to pay for his practice out of income. After the repayment of the loan, the Life Policy becomes a valuable asset to the Doctor.

Many Doctors have already established themselves in practice with the aid of the "Caledonian" Scheme. The Interest Rates are particularly moderate. *The Accountant's charges for investigating the practice and the Legal Fees for preparation of the deeds and documents in connection with the Loan are paid by the Company in completed cases.* Arrangements can be made to meet special cases.

Full particulars on application to the Head Office, or to any of the Company's Branch Offices.

CALEDONIAN INSURANCE COMPANY

HEAD OFFICE: 19, GEORGE STREET, EDINBURGH
LONDON, GLASGOW, BIRMINGHAM, MANCHESTER AND BRANCH OFFICES THROUGHOUT GREAT BRITAIN

RHEUMATISM

KI-UMA UNGT. BRAND

AND

ANTIPHLOGISTIC PLASTERS

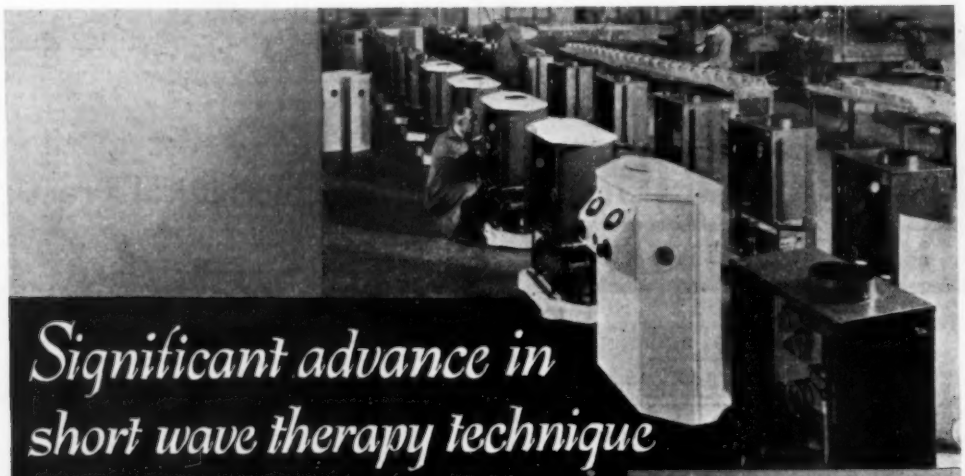
The Antiphlogistic Plaster is ready for immediate use, only requires heating by any form of fire or on a hot water bottle. No mess, wrapped in gauze which prevents "crumbs", can be removed and warmed up every few hours, or a hot water bottle can be applied to the Plaster. One Plaster can be used three nights running or continuously for 36 hours.

Composition. A chemical and physical combination of Bassiæ Parkii, the new Salicylic Ester (S.E.D.), Colloidal Kaolin, Glycerine, Pine Oils and Eucalyptus.
Used in many Hospitals including the Royal Mineral Water Hospital, Bath.

Supplied. Six Plasters in a box, 4"×4", 6"×6", 6"×10", 9"×9".

Clinical Sample and Literature on request.

The Managing Director, KI-UMA LIMITED, BATH



Significant advance in short wave therapy technique

WATSON'S

"NOVOTHERM 300"

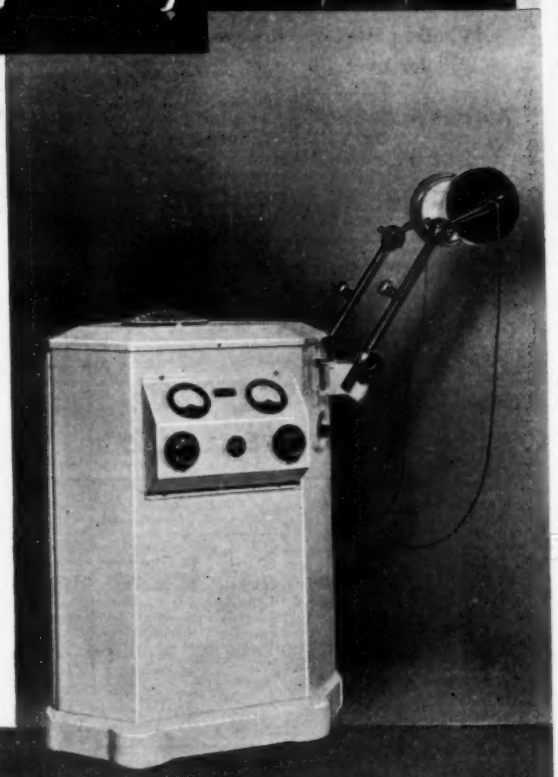
New developments embodied in the design of the "Novotherm 300" are landmarks in the progress of short wave therapy.

The amount of energy applied to the patient is now capable of being controlled with greater accuracy than ever before, thereby eliminating the uncertainty of dosage measurement which has constituted a major difficulty of short wave technique.

The "Novotherm 300" (stabilized wavelength 6 metres) has numerous other features which merit full investigation. An informative brochure is available upon application.

* * * *

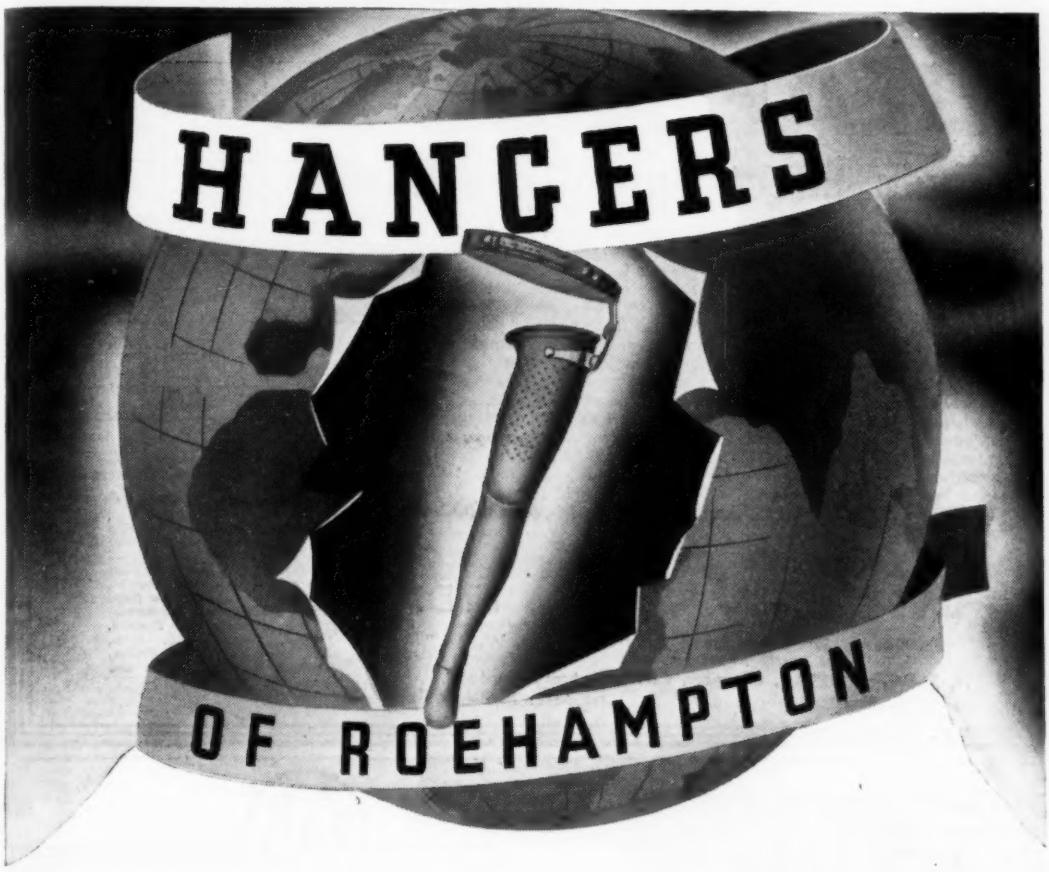
The illustration at the top of this advertisement shows a large series of "Novotherm 300" apparatus in course of construction at Watson's new Wembley factory.



WATSON & SONS

(ELECTRO-MEDICAL) LIMITED
SUNIC HOUSE, PARKER ST., KINGSWAY, W.C.2
Telephone: HOLborn 3881

Branches: BRISTOL BIRMINGHAM MANCHESTER EDINBURGH



RECENTLY ISSUED. Post free to the Medical Profession on application

"Solvitur Ambulando"

72 pages, 37 Coloured Plates, deals exhaustively with the problem of providing prostheses for the lower extremities for every type of amputation and congenital deformity. Many distinguished Surgeons have written to us in terms of the highest appreciation of the usefulness of this book.

J. E. HANGER & CO., LTD.

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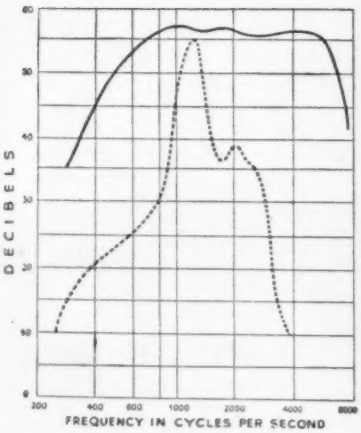
Branches at: Aberdeen, Belfast, Birmingham, Bristol, Cambridge, Cardiff, Cosham, Dublin, Edinburgh, Exeter, Glasgow, Leeds, Liverpool, Manchester, Newcastle-on-Tyne and Nottingham.

DEAF AIDS

Their Effect Upon Speech

In a recent report of research work carried out under the auspices of the Medical Research Council it was written—" Any distortion introduced by unsuitable hearing aid apparatus is usually reflected in the speech of the user." The broken line curve in the illustration shows the enormous distortion present in the ordinary micro-telephone or bone conduction type of hearing aid. Such distortion often produces a change of voice to a harsh unnatural pitch and means continual strain to the user. The continuous line curve shows the amplification of an AMPLIVOX High Fidelity Aid, giving amplification over a wide frequency range, but alterable at will to suit the nature of the deafness. With such a hearing aid the reproduction is of such high quality as to re-educate the hearing and to bring about an improvement in speech where this has deteriorated. This is quite apart from the excellent results which are given by the AMPLIVOX, the first and most widely used High Fidelity hearing aid. We should be glad to send you full particulars of the AMPLIVOX hearing aids.



The AMPLIVOX is obtainable in the United Kingdom only from the manufacturers — AMPLIVOX LTD. — and from Messrs. T. Hawksley, W. H. Pettifor and Aids for the Deaf. There are appointed representatives in Australia, New Zealand, Canada, South Africa, India, Eire, Northern Ireland, France, Holland, Norway, Sweden and Denmark.

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106, George Street, Portman Square, London, W.1.
Telephone: WELbeck 2591/2
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K.B.B. IDEAL SHADOWLESS LAMP, 70cm. diameter, ceiling pattern complete with Suspension Gear and Counter Balance, with Special Electric Bulb for Voltages up to 250.
Other types and sizes on application.

KBB

All British

Shadowless Lamps

for Operating Theatres

PROVIDE AN INTENSE, SHADOWLESS, COOL AND DIFFUSED LIGHT.

LOW FIRST COST, LOW MAINTENANCE, EASY TO INSTAL. CAN BE TILTED AS REQUIRED BY A TOUCH.

EMERGENCY LIGHTING AVAILABLE, NO GLASS MIRRORS.

Most of the leading Hospitals, Infirmaries, and Institutions throughout the country, including those of **The London County Council** and the **Admiralty,** have installed this Lamp.

Write for Descriptive Illustrated Leaflet

KELVIN, BOTTOMLEY & BAIRD LTD.
Cambridge Street, Glasgow, C.2
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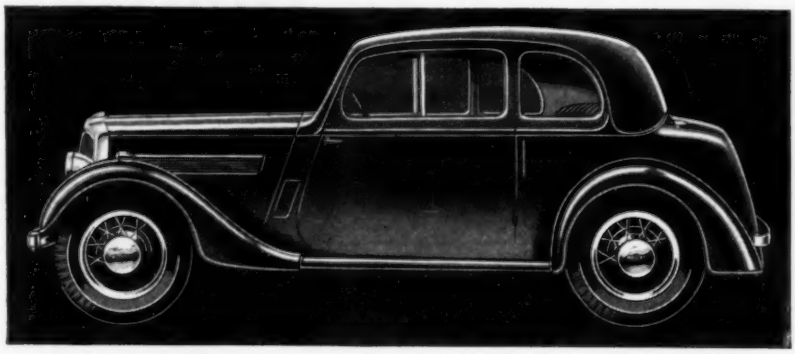
Night and Day



NIGHT and day the doctor must be at the beck and call of his patients. Night and day the lives under his care must largely depend on the efficiency of his car. The Rover 10 h.p. Coupé is well equipped to undertake this heavy responsibility. The extraordinary reliability of its lively 10 h.p. engine, unfailing starting, easy access, and correctly designed suspension enable the driver to cover a considerable daily mileage calmly, confidently, and with a minimum of fatigue and nerve-strain. May we suggest that you give the Rover 10 h.p. Coupé a trial run?

ROVER

10 H·P COUPÉ

£280

THE ROVER CO. LTD., COVENTRY

CVS—245

The Portable Dark Room

The Pocket Dark Room slips directly over the May and similar Ophthalmoscopes and excludes all extraneous light rays. Examination is much facilitated and is possible in the brightest surroundings.

The soft rubber eye caps conform to all eyes and ensure maximum comfort. They withstand sterilisation.

An extra eye cap is provided to permit a working distance of 1" or 1½" between the eyes of the patient and doctor.

Made in U.S.A.
Marketed by the makers of

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electric diagnostic instruments

Obtainable from all Surgical Supply Houses

"An After-Fitting Service to meet changing Aural Conditions"

OUR SERVICE TO DOCTORS AND THEIR DEAF PATIENTS!

—NUMBER TWO—

IN prescribing "Ardente" for your deaf patients when an aid becomes necessary, you are safe because they can obtain service in most important towns throughout Great Britain—to meet any change in their aural condition. As an additional safety factor, each "Ardente" is covered by its maker's guarantee. There are a full range of "Ardente" types—**electrical** and **non-electrical Bone-Conduction, Granule, Valve** and **Phantom types**—which are individually suited, after Auramster Test, to the needs of each case—no expense being incurred until hearing satisfactorily.

R.H. Dent
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Particulars gladly sent and Tests are made at Aurists, Doctors' patients, Hospital, or any of our addresses. Medical Press Reports are interesting. 10 Medals, 5 Diplomas. Supplied under National Health Insurance.

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(*Coloured Building with square clock*) 'Phones: Mayfair 1380/1718/0947
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WITHOUT THE AID OF CHEMICALS OR DRUGS

PAIN is relieved!

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BRAND. (A product of the Kade Laboratories)
HÆMORRHOIDAL SUPPOSITORIES AND OINTMENT

BLEEDING arrested!

Free supply for clinical trial, together with interesting literature on Posterisan therapy to any member of the medical profession.

CHAS. ZIMMERMANN & CO. LTD. (MEDICAL DEPT.), 9-10, St. Mary-at-Hill, LONDON, E.C.3

"TANNOL" BRAND
TRADE MARK

A recent advance in the Tannic Acid treatment of BURNS & SCALDS

Tannic Acid (10%) in combination with an emulsion of Acriflavine (an antiseptic which is itself of value in the treatment of burns—vide N. H. Mummery, "The Lancet", March 25th, 1933).

TANNOL treatment of Burns and Scalds combines the antiseptic properties of Acriflavine with the healing and non-scarring characteristics of Tannic Acid. This formula has been used with outstanding success at one of the largest Children's Hospitals in the country.

TANNOL keeps indefinitely and is always ready for immediate use.

Samples and fullest particulars willingly supplied to the Medical Profession

CLAY & ABRAHAM LTD., *Manufacturing Chemists,* **LIVERPOOL**

NOVOCAIN

BRAND ETHOCAIN
The Original Preparation
English Trade Mark No. 276477 (1905)

The Safest and most Reliable Local Anæsthetic for all Surgical Cases

Does not contain Cocaine, and does not come under the Dangerous Drugs Act.

Literature on Request.

Sold under Agreement

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Telegrams: SACARINO, RATH, LONDON.
Telephone: Museum 8096.

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THE SWEDISH ALKALINE TABLE WATER

RAMLÖSA

Supplied by Special Warrant to H.M. the King and H.R.H. the Crown Prince of Sweden, and also to H.M. the King of Denmark.

50 years' reputation
For Medicinal and Table use

This famous natural water contains practically no lime or iron, and so does not affect the hydrochloric acid in the gastric juice. Ramlosa considerably increases the amount of urine and is therefore indicated in the treatment of diabetes, rheumatism, gout, kidney disorders, etc.

ANALYSIS (per litre)
Sod. Bicarb. .53 gm. Pot. Bicarb. .0003 gm.
Sod. Chlor. .041 gm. Potass. Sulph. .0003 gm.
Mag. Carb. .0016 gm. Silicon Ox. .006 gm.
Protoxide of Iron .000015 gm.

Retail Prices (per dozen)
Large, 13/-. Small, 9/-. Splits, 7/-.

Supplied by Army & Navy Stores, Selfridges, Harrods, Barkers and the Trade generally.

SAMPLE BOTTLE FREE ON REQUEST

Sole Agent in Gt. Britain:
COL. DRAGE, CRICCIETH.

Sole Wholesale Distributors:
INGRAM & ROYLE LIMITED,
45 Belvedere Road, S.E.1.

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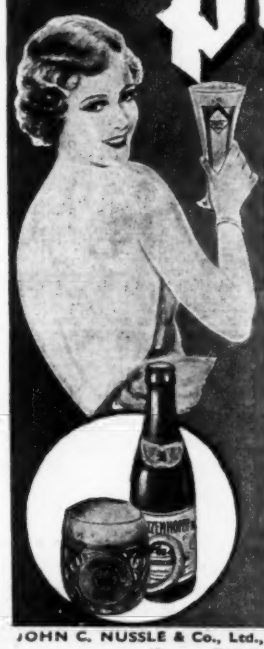
Patz LAGER



combines the qualities of a corroborant with the palatable attractiveness of a sparkling beverage. "Patz" Lager is *matured for 12 months*, bottled and pasteurised in the British Isles, ensuring a purity particularly valuable where the re-establishment of eupepsia is desired. It holds the world's Record Sale.

Sufferers from gout, liver and kidney diseases, and mild diabetes derive considerable benefit from "Patz" Lager because of its low carbohydrate and protein content.

And for *you*, Doctor—the end of a strenuous day is incomplete without a "Patz"!

The Lancet analytical report sent free on request.

JOHN C. NUSSLE & Co., Ltd., 21 Soho Square, London, W.1.
'Phone: GERRARD 3706 (3 lines)

TRADE MARK **'TABLOID'** BRAND

NICOTINIC ACID

A series of trials appears to have established the value of Nicotinic Acid in the treatment of Pellagra. This follows the discovery that Vitamin B_2 is a complex of tripartite nature—lactoflavine, B_6 "the rat dermatitis factor" and the Pellagra-preventing factor proper (P.P.).

Nicotinic Acid is available as
'TABLOID' NICOTINIC ACID,
0·05 gm., in bottles of 100 products.

BURROUGHS WELLCOME & CO., LONDON
Address for communications: SNOW HILL BUILDINGS, E.C.1
Exhibition Galleries: 10, HENRIETTA STREET, CAVENDISH SQUARE, W.1
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JECOCIN

BRAND

MEDICATED COD LIVER OIL

A new preparation consisting of Vitamin tested Cod Liver Oil, Creosote, Chloroform and Cinnamon Oil having nutritive, demulcent, expectorant and antiseptic properties. Excellent results have been obtained in the treatment of infections of the lungs and bronchi; particularly in chronic bronchitis, bronchiectasis, tuberculosis and chronic coughs of a similar nature.

One teaspoonful to be taken three or four times daily.
PER 4 oz. BOTTLE 2/- (Discount to the Medical Profession)
Sample sent on request.

OBTAINABLE FROM ALL BRANCHES OF The Boots Chemists

OR FROM THE
WHOLESALE AND EXPORT DEPARTMENT

BOOTS PURE DRUG CO. LTD.
NOTTINGHAM ENGLAND

IN GYNÆCOLOGICAL PRACTICE

KALZANA

IS A MOST VALUABLE ADJUVANT

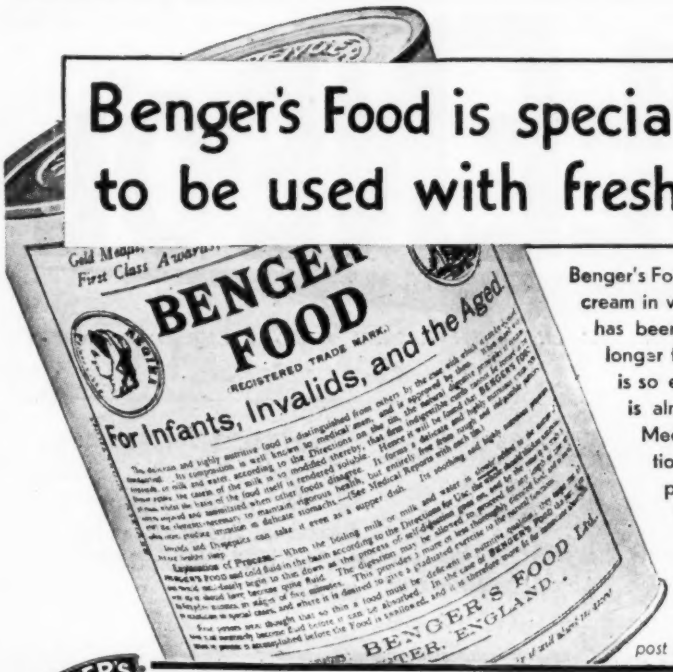
Of undoubted value in gynaecological cases is Kalzana, the double salt of Calcium-Sodium-Lactate. It regulates the hormonal functions of the ovaries, decreases the permeability of the blood-vessels in all cases of haemorrhage, regulates the blood pressure, checks exudations and beneficially influences menstrual disorders.

Kalzana is dispensed by chemists in packages containing 50 and 100 plain tablets. Also direct from us for your own dispensing at 15/- per 1,000 (plain tablets). In powder form at 7/- per lb. (These prices do not apply in Eire.)

SAMPLES AND LITERATURE WILL GLADLY BE SENT ON REQUEST TO:

THERAPEUTIC PRODUCTS LTD. (DEPT. L.26), AINTREE RD., PERIVALE, GREENFORD, MIDDX.

Benger's Food is specially devised to be used with fresh cow's milk



Benger's Food, when prepared, is a dainty food cream in which the tough curd of cow's milk has been broken down so that it can no longer form indigestible clots. Because it is so easy of assimilation Benger's Food is almost universally prescribed by the Medical Profession for enfeebled digestion, and for extreme conditions its prescription is almost standard. Benger's Food is so delicious that it is eaten with enjoyment by those who find milk, or diluted milk, unpalatable.

A Physician's sample and literature sent post free on request.

BENGER'S Food Trade Mark

BENGER'S FOOD, LTD., Otter Works, MANCHESTER. Eng.

NEW YORK U.S.A.: 41, Malden Lane. SYDNEY N.S.W.: 350, George Street. CAPE TOWN S.A.: P.O. Box 732.

Benger's Food, in sealed tins, is on sale throughout the world by Chemists, etc. M307

How many of your patients are Neurasthenic?

OUR own long experience has shown us the heavy toll of present-day conditions on the nervous system, and while every Doctor has his own preferred treatment, we have been convinced by the many hundreds of testimonials we receive, that our nerve food has definitely assisted in recovery of serious cases.

Test Bilson's yourself and note its effect on your nerves—tired after hours of concentration—and you will then recommend it to your patients.

Bilson's Nerve Food is rich in organic calcium, sodium, phosphorus and iron. It is a valuable health builder and tonic for brain workers, and beneficial for growing children.

BILSON'S NERVE FOOD

T. J. BILSON & CO.
PURE FOOD SPECIALISTS
19 GRAY'S INN ROAD, LONDON, W.C. 1
Telephone: Holborn 4710

Is stocked by leading chemists and health food stores. . . . We shall be pleased to send a professional sample on request.

KAYLENE-OL

KAYLENE BRAND OF COLLOIDAL KAOLIN WITH HIGHLY VISCOUS LIQUID PARAFFIN

INDICATIONS:
Intestinal Toxæmia, Stasis, Chronic Colitis, Dietary Indiscretions, and in all conditions due to toxic absorption from the bowel.

Samples and Literature from the sole manufacturers:
KAYLENE LIMITED, WATERLOO ROAD, LONDON, N.W.2

EFFICIENCY ESTABLISHED BY BIOLOGICAL TESTS AND CLINICAL USE

An Extract of Adrenal Cortex for the treatment of Addison's Disease

and other conditions

EUCORTONE is an extract of adrenal cortex, containing the hormone, cortin. It is highly successful in Addison's disease. Particularly striking in its rapid restoration of appetite, weight, strength, and feeling of well-being.

Successes have now been reported from the use of adrenal cortical extract in various other conditions, including neurasthenia, psoriasis, and hyperemesis gravidarum.

IN ACUTE TOXÆMIA OF BURNS—*Lancet*, 1936, June 20th, p. 1400.

Three cases of acute toxæmia from burns were treated with EUCORTONE and recovered. In two of the cases, death within a short time could have been predicted almost certainly. In the investigators' experience of these conditions, recovery under any methods of treatment previously used had not occurred. The investigators attributed the recovery in these cases with every confidence to EUCORTONE.

EUCORTONE is biologically standardized on adrenalectomized animals. **It has now been further purified and concentrated.** It is practically free from nitrogen and adrenaline, contains no irritant or toxic substance, and is sterile. **One c.cm. of the extract is equivalent to 75 grams of adrenal cortex or about 110 grams of the whole gland.**

EUCORTONE is administered intramuscularly, intravenously (in crises), and subcutaneously (in chronic cases).

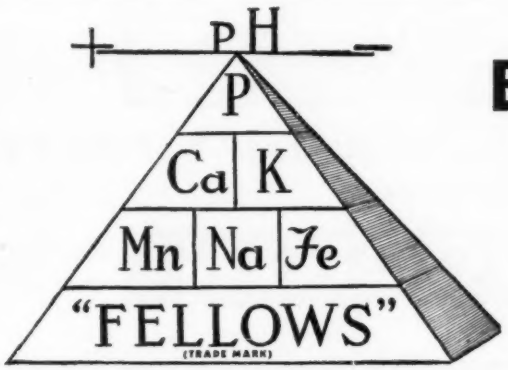
TRADE **EUCORTONE** MARK

(CORTIN, A. & H.)

In rubber capped bottles of 10 c.cm., 25/- Particulars and literature on application.

ALLEN & HANBURYS LTD., LONDON, E.2

Telephone—Bishopsgate 3201 (12 lines) Telegrams—"Greenburys Beth London."



BALANCE THE pH

and tone up the entire system with

COMPOUND SYRUP OF HYPOPHOSPHITES "FELLOWS"

Scientifically compounded to correct mineral deficiency; and as an unequalled tonic.

Samples on request

FELLOWS MEDICAL MFG. CO., Ltd.
286 St. Paul Street West
Montreal, Canada

Otalgan

Otitis media, Otalgia

For the conservative treatment of Otitis Media, Inflammation of the Tympanum and Tympanic Membrane, and complications of the ear arising from coryza, Influenza and other infectious diseases.

Bottles of - - 6 cc. and 10 cc.

N.B.—The Name **OTALGAN has NEVER BEEN CHANGED**

Tyronorman

a Thyroid-inhibitory Substance **free from iodine, accordingly innocuous,** effective by oral administration, without addition of any medicinal agent, for conservative treatment of **Graves' Disease, Thyreotoxicoses,** disturbances of milk secretion of thyreogenic origin, iodine-free pre- and post-operative treatment in Graves' disease.

Accurately standardised: 1 tablet = 10 antithyroid units.

HOMMEL'S HÆMATOGEN & DRUG CO. 121, NORWOOD ROAD, HERNE HILL, S.E.24

PNEUMONIAS

★DEATH RATE MORE THAN HALVED

by intramuscular injections of

'SOLVOCHIN' TRADE MARK BRAND — 25% AQUEOUS QUININE SOLUTION

and

'TRANSPULMIN' TRADE MARK BRAND — QUININE-CAMPHOR-VOLATILE OILS

★ *Such are the findings of Cahn-Bronner—"Medical World"* xxviii, *No.* 25, 1928.

Samples and Literature on request from

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(Compound Calcium Mandelate B.D.H.)

Clinical evidence continues to confirm the value of Mandecal in the treatment of urinary infections; for example, it is reported that a case of pyelocystitis in an elderly patient responded after only four days' treatment; the urine cleared rapidly and the patient experienced a marked improvement in general health.

Mandecal, being readily miscible with water, is simple of administration; moreover, it is established that no dyspeptic discomfort follows its use.

Sample on request

THE BRITISH DRUG HOUSES LTD.

LONDON N.1

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Reduced Mortality

In reviewing 19 cases of agranulocytosis seen at one New York City hospital during recent years, two observers comment on the reduction in mortality from 62% to 27% since the introduction of 'Pentnucleotide' (*N.Y. State Jour. Med.*, 37:38, 1937). While giving due credit to the use of liver preparations and to transfusion, especially when the latter is given concurrently with 'Pentnucleotide,' the authors conclude: "'Pentnucleotide' appears to be the most effective form of treatment."

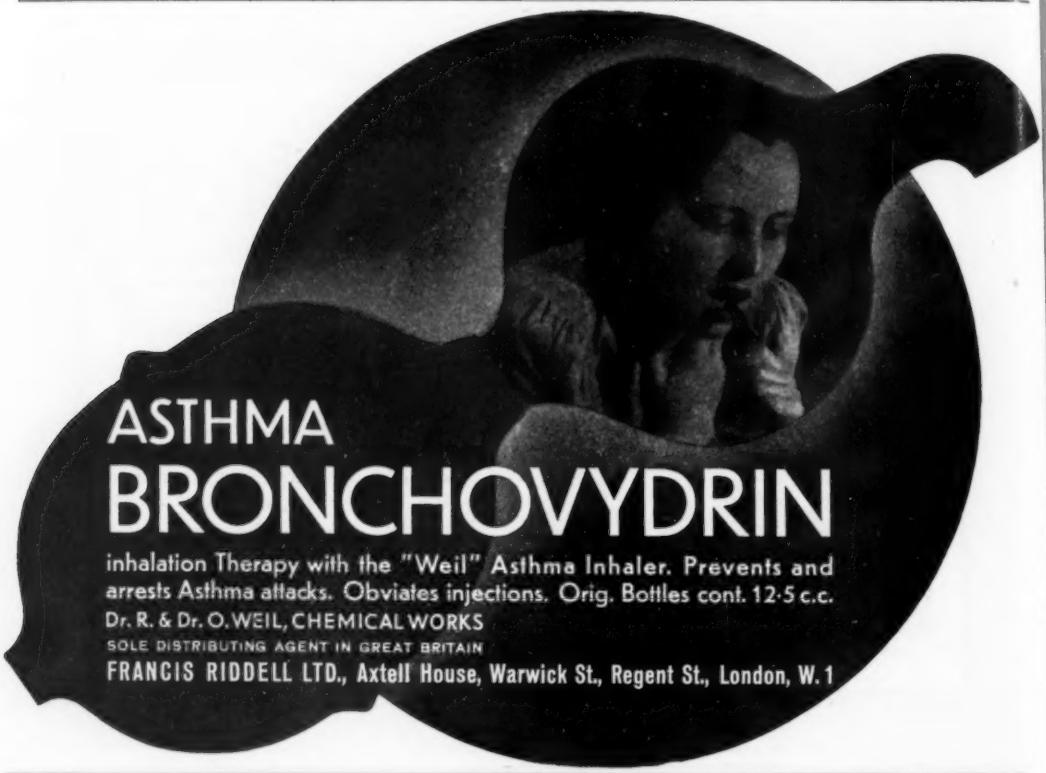
'PENTNUCLEOTIDE'

A mixture of the sodium salts of pentose nucleotides for intramuscular use in the treatment of

AGRANULOCYTOSIS

Further information on 'Pentnucleotide' will be sent to any interested physician on request.

Distributed by
MENLEY & JAMES, Ltd.,
64, Hatton Garden, London, E.C.1,
for Smith, Kline & French Laboratories.



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BRONCHOVYDRIN

inhalation Therapy with the "Weil" Asthma Inhaler. Prevents and arrests Asthma attacks. Obviates injections. Orig. Bottles cont. 12·5 c.c.

Dr. R. & Dr. O. WEIL, CHEMICAL WORKS

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SUPERSAN

a safe, non-poisonous, and non-irritant antiseptic for all purposes

SUPERSAN is a new antiseptic having six times the potency of pure carbolic acid as tested by the Rideal Walker method. SUPERSAN retains its activity when intimately mixed with blood and serum, thus permitting adequate disinfection of wounds without injury to the tissues, and acting as an efficient antiseptic when it is most needed. SUPERSAN is especially suitable for sterilising the skin and for use in midwifery and surgery.

PER 4 oz. BOTTLE 10½d.

(Discount to the Medical Profession)

OBTAINABLE THROUGH ANY BRANCH OF The Boots Chemists

FULL SIZE TRIAL SAMPLE SENT ON REQUEST

WHOLESALE AND EXPORT DEPARTMENT

BOOTS PURE DRUG COMPANY LTD.

NOTTINGHAM, ENGLAND.

SAFETY AND EFFECTIVENESS

During oral therapy of urogenital infections paramount considerations confronting the physician are safety and effectiveness. Pyridium is established as a safe and effective remedy in the treatment of these conditions.

Advantages of Pyridium Therapy include :

- Relief of distressing symptoms.
- Effectiveness in either acid or alkaline urine.
- Gratifying clinical results as evidenced in the literature.
- Convenience of administration in tablet form.
- No special diet required.
- Elimination by the urinary tract without irritation or toxicity in therapeutic dosage.

The value of Pyridium (phenyl-azo-alpha-alpha-diamino-pyridine hydrochloride) is established in cystitis, pyelitis, urethritis, prostatitis, vaginitis, and in preoperative urinary tract infections.

Samples on request

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Liver Therapy

NEO-HEPATEX

(Parenteral)

For intramuscular and intravenous use

Clinically tested

The remarkable efficiency of Neo-Hepatex provides fully adequate dosage in small volume

Issued in boxes : 6×1 cc., 5/- ; 6×2 cc., 7/6 ; 3×4 cc., 6/6
Products of Evans Biological Institute

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MEDICAL PRODUCTS OF PRECISION
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A PRODUCT OF DISTINCTION

ETHER SOLUBLE TAR PASTE

INDICATED IN

ECZEMAS, PRURITUS, PSORIASIS, etc.

PRESCRIBE AS

"E.S.T.P." (Martindale)

Issued in 2, 4, and 8-oz. pots

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ANAHÆMIN B.D.H.

'. . . easily the best liver preparation for the treatment of pernicious anæmia' - - — M.D.

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(Magnesium trisilicate Evans)

A safe antacid

For the treatment of hyperacid gastritis, acid fermentation and gastric ulcer

Novasorb is produced by methods which ensure an optimum clinical value with freedom from any unfavourable secondary effect. Even when given in quantity sufficient to neutralise free hydrochloric acid entirely it cannot cause alkalosis.

DOSAGE: *Approximately one teaspoonful, modified according to the necessities of each case. Overdosage is not harmful.*

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NOVASORB is issued in bottles:
4-oz. 2/6; 8-oz. 4/9; 16-oz. 9/-
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WHOOPING COUGH

Detoxicated Whooping Cough Vaccine (Genatosan) has proved remarkably successful. Reports received from medical practitioners state that it usually reduces the frequency of the paroxysms after the first injection, and subsequent injections almost invariably clear up the condition. Owing to the elimination of the toxic elements of the germ during the process of manufacture, this vaccine may be given to infants and young children, in doses sufficiently large to produce the desired therapeutic effect, with an absence of harmful reaction.

The following is typical of many reports received from physicians:—

> ***"I have been making a somewhat extensive use of your Detoxicated Vaccine for Whooping Cough, and am pleased to say that the results have been almost invariably gratifying. In nearly all my cases the very distressing symptoms have disappeared after the third injection."*** ——————*M.D.*

Additional information regarding this Vaccine will gladly be supplied on request.

GENATOSAN LIMITED

VACCINE DEPARTMENT,
LOUGHBOROUGH, LEICESTERSHIRE.

An ideal extra-dietary source of vitamins throughout the winter is supplied by

RADIO-MALT

Its regular administration ensures a sufficiency of Vitamins A B_1 B_2 and D to counteract the harmful effects which inevitably result from the low vitamin content in the daily diet at this time of the year.

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RM/S/334

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Better Salicylate Therapy

WHATEVER be the season of the year, there is a wide sphere of utility for "Alasil," the improved form of salicylate medication. "Alasil" is a very definite advance on ordinary compounds of salicylic or acetyl-salicylic acid both in therapeutic efficiency and in freedom from unpleasant gastro-intestinal sequelæ. This high tolerability is due to the fact that "Alasil" is composed of calcium acetyl-salicylate—the least irritating of the salicylate compounds—and "Alocol" (Colloidal Hydroxide of Aluminium), a powerful gastric sedative and antacid.

A careful series of experimental tests has recently shown that "Alasil" is more completely absorbed than ordinary salicylate compounds, and that it is practically free from the risk of liberating free salicylic acid in the stomach. Wide clinical experience anticipated these findings by demonstrating that the use of "Alasil" can be pushed or prolonged to a much greater extent than ordinary salicylate compounds, and that it can be given with equal safety to children, adults, the aged, and patients with finely-balanced digestive capacities.

A supply for clinical trial with full descriptive literature sent free on request.

A. WANDER, LTD.,
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M269

THE COD LIVER OIL TREATMENT of WOUNDS, BURNS, etc.

THE remarkable results attained by Professor Löhr with the Cod Liver Oil treatment of severe contused or lacerated infected wounds, burns, etc., has now been confirmed (see Lancet, 1935, 2, 290).

Professor Löhr's work has shown the necessity for a carefully stabilized vitamin content of the Cod Liver Oil used.

Unguentolan Ointment prepared and standardized according to Professor Löhr's method is now available to the medical profession in England.

The outstanding advantage of the method of treatment is that the original dressing rarely required changing, and healing takes place with a minimum of cicatrization.

For special Brochure on "The Cod Liver Oil Method of Treatment of Wounds, Burns," etc., and clinical sample apply to:—

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Duncan's Nasal Creams are put out in Elastic Gelatine Capsules suitable for applying a medicament to the higher nasal passages. The following different kinds of creams are offered:

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This brief list shows a few of the disorders in which Ostocalcium Tablets have proved to be of notable value.

CHILBLAINS • ALLERGIC STATES, e.g. URTICARIA NETTLERASH • TETANY • MIGRAINE • DELAYED UNION OF FRACTURES • BACKWARD DENTITION IN CHILDREN • MUSCULAR CRAMPS . . . AND IN PREGNANCY

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IMPROVED FORMULA NOW GENERALLY AVAILABLE

The Ostocalcium Tablets now being issued possess improved flavour, friability and keeping properties. Also the calcium content has been substantially increased. The new tablets incorporate 2½ grains of calcium phosphate, in addition to 7½ grains of calcium sodium lactate and 500 international units of vitamin D. Thus each tablet now provides a total of 1½ grains (0.1 gram) of assimilable calcium, or twice as much as the tablets of the old formula. There is, however, no change in price.

★ **OSTOCALCIUM TABLETS**
Prices (except in Eire): Tins of 50, 2/3; 100, 4/-; 500, 12/6; 1,000, 17/6. Subject to the usual professional discount.

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GL. 302

For Delicate Adults and Children

"Lixen" is an extract of senna prepared by a special cold process to allay the griping action. The absence of an after-constipating effect gives it a special value in habitual constipation, and its gentle, though efficient, action, together with its pleasant flavour, makes it particularly acceptable to women, children, elderly and delicate persons, and convalescents, for whom the finding of a satisfactory aperient is often difficult.

Descriptive literature and clinical sample will be sent on request.

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ELIXIR & LOZENGES

"LIXEN" Elixir
In bottles of 4 oz. **1/9**, 8 oz. **3/-**, and 16 oz. **5/6.**
In bottles of 40 and 80 oz. for dispensing.

"LIXEN" Laxative Lozenges
In tins of 12, **7½d.**, and 24, **1/-**. and bottles of 100, **3/6.**
In bottles of 500 for dispensing.

'OVALTINE'

In Nervous States

A STUDY of the manifestations of nervous disorders, such as neurasthenia, hysteria and the various types of neurosis, shows that there is frequently an associated impairment of the general nutrition of the patient. Conversely, it is found in practice that measures taken to improve the nutrition of the patient are generally followed by a definite amelioration of the nervous state.

'Ovaltine,' in addition to its well-known high nutritive value, exerts a distinct sedative effect on the nervous system, which renders its use of special benefit in the treatment of functional nervous states. Where insomnia is an additional feature, its use before retiring is conducive to restful sleep.

'Ovaltine' is a natural food tonic prepared from full-cream milk, new-laid eggs and malt extract. It is rich in the Vitamins A, B (complex) and D and in readily assimilable calcium, phosphorus and iron. Its carbohydrate content is chiefly in the form of quickly-available maltose.

A liberal supply for clinical trial sent free on request.

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A range of new purées

Uniformity and high nutritive qualities now available for general prescription

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PEAS	
PROTEIN	4·8
CARBOHYDRATES	6·8
CALCIUM	0·012
PHOSPHORUS	0·083
IRON	0·0016
VITAMIN A.	GOOD
VITAMIN B.	V.GOOD
VITAMIN C.	V.GOOD
VITAMIN G.	FAIR
CALORIES PER OZ.	17·0

A typical example of the high nutritive values retained in Heinz Strained Foods. (Figures show percentages on the wet basis)

Vegetable and fruit purées, rich in mineral salts, vitamins and other soluble nutriment, constitute the perfect diet for infants and cases of nutritional anaemia.

But despite the wide approval shown by physicians, and a growing appreciation of this dietary by mothers, progress has hitherto been slow, owing to the practical difficulties encountered in home preparation.

The use of vegetables not truly fresh, mechanical losses through oxidation when boiling, and inefficient sieving out of the harsh fibres, inevitably impair the quality of the home-produced preparation.

Now, with the marketing of a range of strained foods by H. J. Heinz Co. Ltd., vegetable and fruit purées containing all necessary dietetic values are available in convenient bulk and form.

Heinz Strained Foods are prepared with all the advantages of the best factory method. The vegetables are specially grown in those areas where soil and climate combine to produce the best; they are harvested when they are just right, and cooked within a few hours of being garnered.

First, the ingredients are scrupulously cleaned. Cooking by light steam pressure in vacuum containers follows, leaving the contents perfectly disposed for comminution by extrusion, and at the same time ensuring retention of the essential juices and mineral constituents. Fine sieving having removed all fibres of a harsh or irritant nature, the purée is then adjusted to an acceptable consistency and sealed in vacuo, the sealed containers being immediately subjected to sterilization under constant conditions of time and temperature.

The purées thus offered are uniform, convenient and of the highest possible nutritive content.

NOTE: *Glass containers are not used owing to the deleterious effect of light on the value and palatability of the purées.*

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STRAINED FOODS

SPINACH
TOMATOES
CARROTS
VEGETABLE SOUP
PEAS
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MIXED GREENS
BEETS
PRUNES
CEREAL
APRICOTS AND APPLE SAUCE

★ ***Fully explanatory literature and samples gladly sent on request.***

H. J. HEINZ COMPANY LIMITED, HARLESDEN, LONDON, N.W.10

Cystopurin

The ideal urinary antiseptic for oral administration!

1 Produces no gastric irritation or toxic symptoms.

2 Is readily absorbed from the gut and excreted in the urine.

3 Causes no renal irritation.

4 Renders the urine bactericidal in low concentrations.

5 Acts from the renal pelvis downwards.

6 Is active in either acid or alkaline urine.

7 Perfectly safe for use in febrile conditions.

8 Acts on all causative organisms of urinary infections.

CYSTITIS

From information received :—

"About six weeks ago I came across a bad case of cystitis and sent a sample of the urine to the —— Research Labs. The reply I got from them was that in cultivation the urine showed masses of streptococci. I was very anxious to see what effect —— would have on this condition and, after three weeks of this treatment, I was doomed to disappointment, due, I suppose, to the fact that there must have been some mixed infection there. I switched over to Cystopurin, and this week I have had a letter from the —— Labs. to say that on bacteriological examination no growth of organisms could be obtained on culture. You will thus see how gratifying my experience has been with Cystopurin, and I can assure you that my patient is just as overjoyed at the result as you and I are."

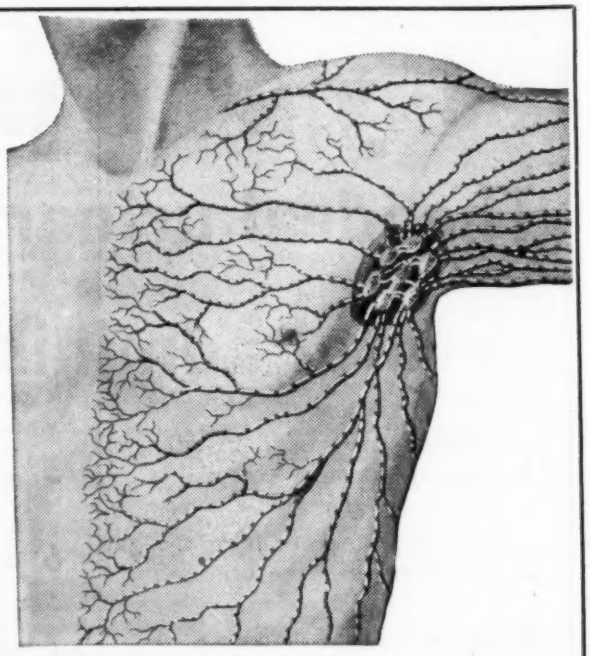
"I have been treating a case of chronic cystitis of nine months' duration, the sequel to an acute attack. This case had resisted treatment by alkalies, two courses of hexamine and acid sodium phosphate and other remedies. Under treatment with Cystopurin the cystitis has now cleared up, and there has been no relapse for nearly two months."

"I have used your Cystopurin repeatedly in cases of cystitis and have found it an excellent urinary antiseptic. I find that patients have NO GASTRIC COMPLAINTS WHILE TAKING CYSTOPURIN, a thing which cannot be said of the ordinary hexamine preparations."

Supplied in bulk and in tubes of 20 tablets for dispensing purposes.

Samples and literature available on request to

GENATOSAN LIMITED, Loughborough, Leicestershire.



In Bronchitis Influenza Cough

Antiphlogistine

Brand Dressing

is always indicated

It stimulates the capillary network of the thorax and hence improves the local metabolism. It eases the constriction in the chest and helps to loosen the cough.

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THE DENVER CHEMICAL MANUFACTURING CO.,
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COD LIVER OIL

is the only Liver Oil with a pedigree of proved achievement behind it

.. now available in a

PALATABLE, HIGH-POTENCY FORM

The study of Vitamins A and D originated through research into the value of Cod Liver Oil as a builder of constitution—sufficient proof of its long standing as a nutritive food. Cod Liver Oil contains nature's Vitamins A and D in their right proportion. That is why it is specifically recommended by the Ministry of Health and the League of Nations Nutrition Committee. Only its general character has been against it in the past but now we have got over this difficulty. We have produced in "SevenSeaS," for the first time, a Cod Liver Oil of fresh pleasant flavour in high potency form.

"SevenSeaS" is obtainable in three forms: (1) High Potency Oil—four times B.P. standard; (2) High Potency Capsules containing 5 mm. dose of High Potency Oil; (3) Standard B.P. Oil. We would like all practitioners to prove "SevenSeaS" High Potency Cod Liver Oil to their own satisfaction. Please send to the address below for a free sample.

PRICES:

HIGH POTENCY OIL (*you only need 5 drops*)	-	1/3 *bottle*
HIGH POTENCY CAPSULES (25 *Capsules*)	-	1/6 ,,
,, ,, ,, (50 ,,)	-	2/9 ,,
,, ,, ,, (100 ,,)	-	5/- ,,
"B.P." STANDARD OIL - - -		10d. & 1/3 ,,

From all chemists, including Boots, Timothy Whites & Taylors, etc., etc.

SEVENSEAS
COD LIVER OIL

BRITISH COD LIVER OIL PRODUCERS (HULL) LTD., ST. ANDREW'S DOCK, HULL, ENGLAND

SCANTY, painful or irregular menstruation usually results in fixed, faulty physiological habits. Treatment is more successful if instituted early.

Take advantage of an endocrine product which represents the best thought of research and clinical medicine.

HORMOTONE

G. W. CARNRICK CO.

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BOTTLES OF 100 TABLETS

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BROOKS & WARBURTON, Ltd.

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The CONSTIPATED CHILD

Agarol simplifies the treatment of constipation by making it pleasant; children not only take Agarol with the greatest of ease but actually enjoy it.

This palatable emulsion of mineral oil and agar-agar with phenolphthalein is the ideal treatment for constipation in children. It is gentle in action and furnishes the natural stimulus to a comfortable and normal peristalsis. Its capacity for lubricating the bowel, softening the faecal mass and easing its passage to the rectum and final expulsion, is unsurpassed.

Further advantages of Agarol are that it is not habit-forming and, by mixing freely with the intestinal contents, it makes the occurrence of seepage extremely improbable.

AGAROL

BRAND COMPOUND

Agarol is not advertised to the public. Supplied in 4½ oz., 7½ oz. and 17 oz. bottles.

Trial supplies to members of the Medical Profession on request.

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Measles Control with

IMMUNE GLOBULIN (HUMAN)

Lederle

BECAUSE of the frequency of complications, the mortality rate of measles is high—higher than that for whooping cough, diphtheria and scarlet fever.

Complications can be avoided by the use of IMMUNE GLOBULIN (HUMAN) *Lederle*, particularly those of broncho-pneumonia—responsible for about 50% of deaths in the infant age group (6 months to 3 years).

As a modification dose, one injection of 2 cc. is administered to patients in the infant age group from 6 to 8 days after exposure (for children in the same family this is 2 to 4 days after the appearance of rash in the exposing child). This dosage confers an active and lasting immunity in the majority of cases. For passive immunity of several weeks, a first dose of 2 cc. of IMMUNE GLOBULIN (HUMAN) *Lederle* is administered as soon as contact has been recognized; a second dose of 2 cc. four days later.

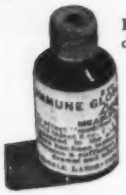
THE COMPARATIVE VALUE OF ADULT SERUM, CONVALESCENT SERUM, AND IMMUNE GLOBULIN

PATIENTS TREATED FOR PROTECTION OR MODIFICATION

ALL TYPES OF EXPOSURE

Procedure	Cases	Per Cent. Protected	Per Cent. Modified	Per Cent Failed
Adult Serum	584	56·4	23·8	19·8
Convalescent Serum ...	1,627	75·4	16·8	7·8
Immune Globulin ...	**1,341**	**71·5**	**23·9**	**4·6**

Eley, R. C., *N.E. Journ. Med.*, Aug., 1935, 213, 195.



IMMUNE GLOBULIN (HUMAN) *Lederle* is distributed in 2 cc. vials and 10 cc. vials.

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TAXOL

Formula

Intestinal glands - -	0.05 grms.
Biliary extract - -	0.10 ,,
Lactic ferments - -	0.05 ,,
Agar-agar - - - -	0.05 ,,
Fiat tablet - - - -	0.35 ,,

Initial Daily Dose
Two Tablets

Laxatives, it is well known nowadays, must have two essential characteristics.

1. They must be biological, i.e., they must accord with and imitate in their action the natural physiological processes of the intestine.
2. They must be capable of educating the intestine, so that the habit of a laxative is not formed and the intestine can function unaided when bowel adjustment is attained.

Taxol has both these advantages.

Taxol has not the violent irritant action of many laxatives and purgatives, but stimulates the intestine by processes which resemble those of nature. The intestinal gland which is an important part of its composition acts on the intestine by reinforcing the deficient function which has culminated in constipation. This stimulating action is gentle, and does not force the weakened intestine to efforts beyond its power, which would culminate in aggravation of the constipation.

Taxol is not habit-forming. It re-educates the intestine to resumption of normal function unaided, thanks to the biological nature of its action. It contains no irritant drug of violent and artificial action to which the intestine can become accustomed. On the contrary, many stubborn cases of constipation, after a course of TAXOL, revert to normal and regular peristalsis.

CONTINENTAL LABORATORIES LTD. 30 MARSHAM STREET, LONDON, S.W.1

Eschatin

Suprarenal Cortex Extract

P., D. & Co.

Eschatin is a solution of the suprarenal cortex hormone manufactured by Parke, Davis & Company in collaboration with the originators, Swingle and Pfiffner. It is assayed on bilaterally adrenalectomized dogs and standardized to contain 25 dog units per c.c.

Primarily indicated for the treatment of Addison's disease Eschatin has proved of value in pernicious vomiting of pregnancy, asthma, adrenal insufficiency, shock due to extensive burns, and in the treatment of pulmonary tuberculosis, diphtheria, scarlet fever, influenza and typhoid fever.

Eschatin is supplied in bottles of 10 c.c.

Parke, Davis & Co., 50 Beak St., London, W.1

Laboratories: Hounslow, Middlesex ***Inc. U.S.A., Liability Ltd.***

STREPTOCIDE

(p-aminobenzenesulphonamide Evans)

For oral administration

The value of STREPTOCIDE in

PUERPERAL FEVER

is fully described in a report to the THERAPEUTIC TRIALS COMMITTEE
(*vide* LANCET, Nov. 27th, 1937, and Dec. 4th, 1937)

OTHER INDICATIONS INCLUDE:

ERYSIPELAS
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STREPTOCOCCAL SORE THROAT
B. COLI AND GONORRHŒAL INFECTIONS OF THE GENITO-URINARY TRACT

STREPTOCIDE is issued in tablets as follows:—

	0.5 grm. (7½ grains)	0.25 grm. (3¾ grains)
In bottles of 25 Tablets ...	**2/-** ...	**1/9**
,, 100 ,, ...	**6/6** ...	**5/3**
,, 250 ,, ...	**15/-** ...	**10/-**

and in folded powders
In boxes of 12 (**0·25** grm.) **2/6** per box. In boxes of 12 (**0·5** grm.) **3/3.**

Streptocide is available also for topical application as

STREPTOCIDE OINTMENT

(*contains 5% of p-aminobenzenesulphonamide Evans*)

Issued in 2-oz. collapsible tubes - - **2/-** each

Made in England at
EVANS BIOLOGICAL INSTITUTE
by

Evans Sons Lescher & Webb Ltd.

Liverpool and London

MENSTRUAL PAIN

In the majority of cases menstrual difficulties and pain arise from endocrine dysfunction. The use of analgesic drugs, therefore, is at best only a palliative measure. On the other hand, Menocrin, a potent combination of active endocrine substances, influences the *cause* of the dysfunction.

Menocrin acts directly upon the synergistic glands controlling menstrual function, it corrects faulty balance between these endocrines and restores their harmonious inter-working. If used over a period of three or four menstrual months, Menocrin will relieve the pain, *because it will remove the cause.*

Menocrin is available in boxes of 100 tablets; in ampoules of solution for intramuscular injection and as Guttæ Menocrin for oral administration.

An Endocrines-Spicer product

the efficient, convenient recognised therapy in menstrual difficulties

MENOCRIN

INFLUENZA and PNEUMONIA

EDWENIL

the modern treatment

The clinical usefulness of Edwenil is well exemplified by its effect on pneumonia and influenza. The natural responses of the body are accentuated, temperature is rapidly reduced to normal and the whole disease process is shortened. Dosage may be aggressive (2-4 c.c. every 12 or 24 hours), there is no risk of causing a "reaction" or of adding to the patient's difficulties.

EDWENIL

Available in rubber-capped phials of 12½ c.c., 25 c.c. and 50 c.c., also in boxes of three and twelve 2 c.c. ampoules.

Manufactured in the Laboratories of

ENDOCRINES-SPICER LTD.

WATFORD Phone: Watford 5284 **HERTS**

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to reverse menopausal changes

"Admittedly the statement that a morbid menopause is a deficiency disease is a bold one, but there is little difficulty in accepting this view, now that animal experiments have shown that one of the actions of œstrin is to inhibit the activity of that dynamo of function—the hypophysis. Moreover, since œstrogenic deficiency spells derangement of the whole endocrine system, correction of such deficiency will replace the normal inhibition of the anterior pituitary and reco-ordinate the glandular system. The results obtained from the use of œstrogenic substances corroborate this view."

PRACTITIONER. Vol. 138, 60 (1937)

"It will be apparent that oral therapy is so dependable that it should be the method of choice. About 5 times as much needs to be given as by hypodermic injection."

J. AMER. MED. ASSOC. Vol. 104, 624 (1935)

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Standardised biological products

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TRADE MARK **'RETICULOGEN'** BRAND

PARENTERAL LIVER EXTRACT WITH VITAMIN B_1

A new highly concentrated and refined solution of Liver extract for the treatment of pernicious anæmia.

Dosage: For treatment of cases in relapse, at the time treatment is instituted, a dose of 0.5 cc. given on three successive days is usually indicated. After the initial injections on three successive days, a dose of 0.5 cc. at intervals of one to two weeks usually suffices to maintain an adequate red cell response.

Supplied: In packages containing three 0.5 cc. rubber stoppered ampoules; and in 5 cc. rubber stoppered ampoules.

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Distributing Agent in Britain for

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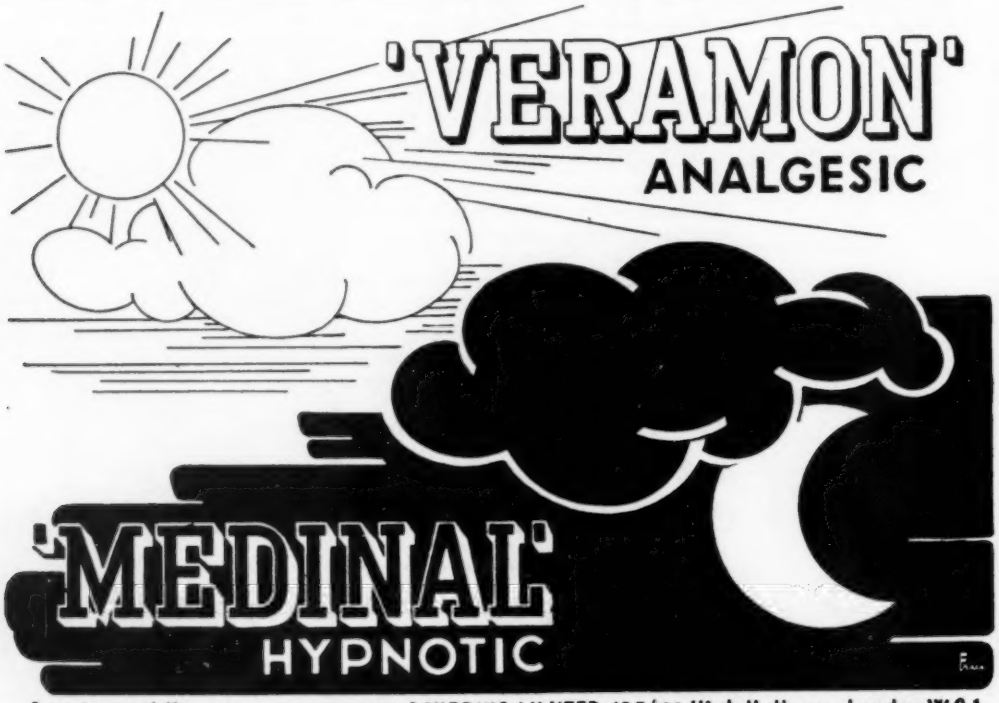

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The rapidly-acting ergot alkaloid

Induces rapid contraction of the uterus during the puerperium. Has a pronounced action on post-partum hæmorrhage.

By mouth. Dose—0·5 mgm. to 1 mgm.

TRADE MARK 'TABLOID' BRAND ERGOMETRINE
0·5 mgm.

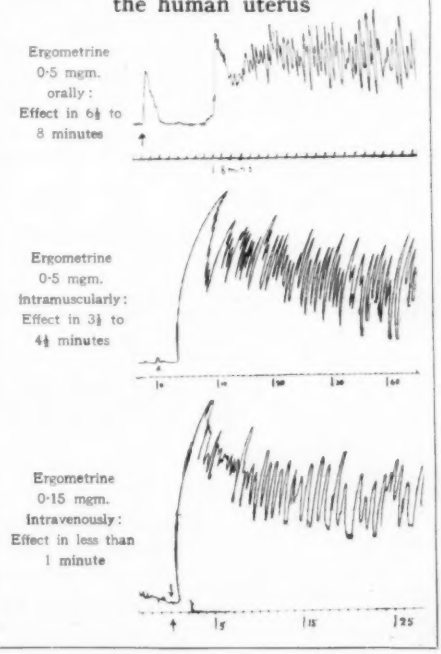
TRADE MARK 'WELLCOME' BRAND
SOLUTION OF ERGOMETRINE
0·5 mgm. in 2·5 c.c.

By Injection

TRADE MARK 'TABLOID' BRAND
HYPODERMIC ERGOMETRINE
0·5 mgm. *For Intramuscular Injection*
0·125 mgm. *For Intravenous Injection*

TRADE MARK 'HYPOLOID' BRAND ERGOMETRINE
0·5 mgm. in 1 c.c. *For Intramuscular Injection*
0·125 mgm. in 1 c.c. *For Intravenous Injection*

Kymographic tracings illustrating action of ERGOMETRINE on the human uterus



TRADE MARK **'WELLCOME'** BRAND

ERGOTOXINE ETHANESULPHONATE

For prolonged effect during the puerperium. Originated and introduced by Burroughs Wellcome & Co.

For prices and descriptive notes, see WELLCOME'S MEDICAL DIARY
Special literature, post free on request

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MARCH	1st	Dr. JOHN PARKINSON	Difficulties in Cardiac Diagnosis.
,,	8th	Dr. D. EVAN BEDFORD	Auscultation.
,,	15th	Dr. JOHN PARKINSON	Myocardial Disease.
,,	22nd	Dr. PAUL WOOD	Congestive Heart Failure.
,,	29th	Dr. J. M. H. CAMPBELL	Aortic Disease.
APRIL	5th	Dr. B. T. PARSONS-SMITH	Mitral Disease.
,,	12th	Dr. T. F. COTTON	Rheumatic Heart Disease in Children and its Treatment.
,,	26th	Dr. PAUL WOOD	Pericarditis.
MAY	3rd	Dr. J. M. H. CAMPBELL	Paroxysmal Tachycardia.
,,	10th	Dr. B. T. PARSONS-SMITH	Angina Pectoris.
,,	17th	Dr. D. EVAN BEDFORD	Hypertensive Heart Disease.
,,	24th	Dr. T. F. COTTON	Thyrotoxic Heart Disease and its Treatment.

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Department of Medicine

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on
MARCH 3rd, 10th, 17th, 24th, 31st, and APRIL 7th, 1938,
at 4.30 p.m.

Department of Surgery

A COURSE OF THREE LECTURES
on The

SURGICAL APPLICATION OF ENDOCRINOLOGY WITH SPECIAL REFERENCE TO THE ADRENAL GLANDS

will be given by
MR. L. R. BROSTER, O.B.E., M.A., D.M., F.R.C.S.,
on
FEBRUARY 24th, MARCH 3rd and 10th, 1938,
at 2.30 p.m.

A COURSE OF FIVE LECTURES
on

DISEASES OF THE BREAST

will be given by
MR. GEOFFREY KEYNES, M.D., F.R.C.S.,
on
MARCH 11th, 18th, 25th, APRIL 1st and 8th, 1938, at 2.30 p.m.

Department of Pathology

A COURSE OF THREE LECTURES
on

TUMOURS OF THE CENTRAL NERVOUS SYSTEM AND MENINGES

will be given by
DR. DOROTHY RUSSELL, M.D.,
on
FEBRUARY 23rd, MARCH 2nd and 9th, 1938,
at 4.30 p.m.

A COURSE OF THREE LECTURES
on

THE THYROID AND ITS SECRETIONS

will be given by
PROF. C. R. HARINGTON, M.A., Ph.D., F.R.S.,
on
MARCH 16th, 23rd, and 30th, 1938
at 4.30 p.m.

Department of Obstetrics and Gynæcology

A COURSE OF THIRTEEN LECTURES on

PRESENT-DAY GYNÆCOLOGY

will be given as follows: Thursday afternoons at 3.30 p.m.

March 3rd.	The Female Sex Hormones	Dr. A. S. PARKES, M.A., Ph.D., D.Sc., F.R.S.
" 10th.	Dysmenorrhœa	Mr. MALCOLM DONALDSON, F.R.C.S., F.C.O.G.
" 17th.	Sterility	Mr. V. B. GREEN-ARMYTAGE, M.D., F.R.C.P., F.C.O.G.
" 24th.	Irregular Uterine Hæmorrhage.	Mr. WILFRED SHAW, M.A., M.D., F.R.C.S., F.C.O.G.
" 31st.	Hormone Therapy in Gynæcology.	Dr. T. N. MACGREGOR, M.D., F.R.C.S., F.C.O.G.
April 7th.	Genital Prolapse	Prof. W. FLETCHER SHAW, M.D., F.C.O.G.
" 14th.	Benign Neoplasms of Uterus.	Mr. L. CARNAC RIVETT, M.C., F.R.C.S., F.C.O.G.
April 21st.	Neoplasms of the Ovary	Mr. WILFRED SHAW, M.A., M.D., F.R.C.S., F.C.O.G.
" 28th.	Malignant Neoplasms of Uterus.	Mr. VICTOR BONNEY, M.D., M.S., F.R.C.S., F.R.A.C.S.
May 5th.	Radiation Therapy in Gynæcology.	Miss LOUISA MARTINDALE, C.B.E., M.D., B.S., F.C.O.G., J.P.
" 12th.	Gonorrhœa in Women	Colonel L. W. HARRISON, D.S.O., F.R.C.P.
" 19th.	Salpingitis	Mr. ALECK BOURNE, M.A., F.R.C.S., F.C.O.G.
" 26th.	Birth Control	Dr. HELENA WRIGHT, M.B., B.S., M.R.C.S., L.R.C.P.

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Department of Pathology

A LABORATORY COURSE
on

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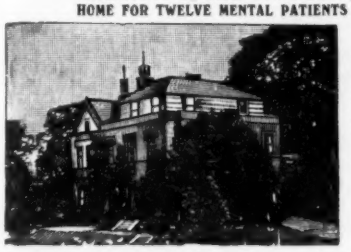

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STRETTON HOUSE,

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A PRIVATE HOME for the treatment of gentlemen suffering from Mental and Nervous illness, including the allied Disorders of Alcoholism and the Drug Habit. All types of early Mental and Nervous Cases are received without Certificates as Voluntary Boarders. Bracing hill country. See "Medical Directory," p. 2328.—Apply to Medical Superintendent. 'Phone 10 P.O., Church Stretton.

CITY OF LONDON MENTAL HOSPITAL

Near DARTFORD, KENT.

Ladies and Gentlemen received for treatment under certificates, and without certificates as either VOLUNTARY or TEMPORARY PATIENTS, at a weekly fee of TWO GUINEAS, and upwards.

HILL END HOSPITAL AND CLINIC

FOR THE PREVENTION AND TREATMENT OF MENTAL AND NERVOUS DISORDERS

(20 miles from London)

Ladies suffering from all forms of MENTAL ILLNESS are received for treatment, on modern lines, as Voluntary, Temporary or Certified Private Patients at the Hill End Hospital. Convalescent or mild cases can be treated in a delightful country mansion, with extensive grounds, known as

HIGHFIELD HALL,

situate about a mile away from the Hospital.

FEES TWO TO THREE GUINEAS PER WEEK.

For further particulars apply to the Medical Superintendent, W. J. T. KIMBER, L.R.C.P., D.P.M.

ST. ALBANS, HERTS

SPRINGFIELD HOUSE

'Phone: BEDFORD 3417. **Near BEDFORD**

For Mental Cases with or without Certificates.

Ordinary Terms: Five Guineas per week (including Separate Bedrooms for all suitable cases without extra charge).

For forms of admission, &c., apply to the Resident Physician, CEDRIC W. BOWER.

INTERVIEWS IN LONDON BY APPOINTMENT.

ST. ANDREW'S HOSPITAL

FOR MENTAL DISORDERS, NORTHAMPTON

FOR THE UPPER AND MIDDLE CLASSES ONLY.

PRESIDENT: THE MOST HON. THE MARQUESS OF EXETER, C.M.G., A.D.C.

This Registered Hospital is situated in 120 acres of park and pleasure grounds. Voluntary patients, who are suffering from incipient mental disorders or who wish to prevent recurrent attacks of mental trouble, temporary patients, and certified patients of both sexes, are received for treatment. Careful clinical, bio-chemical, bacteriological, and pathological examinations. Private rooms with special nurses, male or female, in the Hospital or in one of the numerous villas in the grounds of the various branches can be provided.

WANTAGE HOUSE

This is a Reception Hospital, in detached grounds with a separate entrance, to which patients can be admitted. It is equipped with all the apparatus for the most modern treatment of Mental and Nervous Disorders. It contains special departments for hydrotherapy by various methods, including Turkish and Russian Baths, the prolonged immersion bath, Vichy Douche, Scotch Douche, Electrical Baths, Plombières treatment, &c. There is an operating Theatre, a Dental Surgery, and X-ray Room, an Ultra-violet Apparatus, and a Department for Diathermy and High Frequency treatment. It also contains Laboratories for bio-chemical, bacteriological, and pathological research.

MOULTON PARK

Two miles from the Main Hospital there are several branch establishments and villas situated in a park and farm of 650 acres. Milk, meat, fruit, and vegetables are supplied to the Hospital from the farm, gardens, and orchards of Moulton Park. Occupation therapy is a feature of this branch, and patients are given every facility for occupying themselves in farming, gardening, and fruit growing.

BRYN-Y-NEUADD HALL

The Seaside house of St. Andrew's Hospital is beautifully situated in a Park of 330 acres, at Llanfairfechan, amidst the finest scenery in North Wales. On the North West side of the Estate a mile of sea coast forms the boundary. Patients may visit this branch for a short seaside change or for longer periods. The Hospital has its own private bathing house on the seashore. There is trout fishing in the park.

At all Branches of the Hospital there are cricket grounds, football and hockey grounds, lawn tennis courts (grass and hard court), croquet grounds, golf course, and bowling greens. Ladies and gentlemen have their own gardens and facilities are provided for handicrafts such as carpentry, &c.

For terms and further particulars apply to the Medical Superintendent (TELEPHONE: No. 2356 and 2357 Northampton), who can be seen in London by appointment.

PRIOR PLACE SANATORIUM

HEATHERSIDE, CAMBERLEY, SURREY.

FOR THE TREATMENT OF PULMONARY TUBERCULOSIS

Well situated on high ground and surrounded by pines and heather.
All rooms are fitted with electric light, wash basins with hot and cold water, and radiators.
X ray plant. Day and night nursing staff.

RESIDENT MEDICAL SUPERINTENDENT: Dr. H. O. BLANFORD, to whom application for admission can be made.

THE OLD MANOR SALISBURY

A Private Hospital for the Care and Treatment of those of both sexes suffering from MENTAL DISORDERS.

Extensive grounds. Detached Villas. Chapel. Garden and Dairy Produce from own farm. Terms very moderate.

CONVALESCENT HOME AT BOURNEMOUTH Detached Villas standing in 12 acres of ornamental grounds, with tennis courts, etc., which Voluntary, Temporary or Certified Patients may visit by arrangement for long or short period.

Illustrated Brochure on application to the Medical Superintendent. The Old Manor, Salisbury. Telephone · Salisbury 2251.

THE COTSWOLD SANATORIUM

First opened in 1898 and rebuilt in 1925 on the Cotswold Hills seven miles from Cheltenham, for the treatment of Pulmonary and all other forms of Tuberculosis. Aspect S.S.W., sheltered from North and East, elevation 800 feet. Pure bracing air. SPECIAL TREATMENT by artificial PNEUMOTHORAX (X-Ray controlled), TUBERCULINS, and ULTRA-VIOLET RAYS is available when necessary without extra charge. X-RAY plant, Fully Equipped Dental Department, Electric Light Radiators, hot and cold basins and Wireless in all rooms. Up-to-date drainage. Full day & night Nursing Staff. **Terms 5 to 7½ Guineas a week inclusive.**

Med. Supt.: GEOFFREY A. HOFFMAN, B.A., M.B., T.C. Dub. *Asst. Phys.:* MARGARET A. HARRISON, M.B., B.S. Lond. *Cons. Laryngologist:* CASSIDY de W. GIBB, F.R.C.S. Edin. *Cons. Dent. Surgeon:* GEORGE V. SAUNDERS, L.D.S. R.C.S.Lond. *Phone:* 81 & 82 Witcombe. Apply: *The Secretary, The Cotswold Sanatorium, Cranham, Gloucester. Telegrams:* "Hoffman, Birdlip."

HAYDOCK LODGE,

NEWTON-LE-WILLOWS, LANCASHIRE.

For the reception and treatment of PRIVATE PATIENTS of both sexes of the UPPER AND MIDDLE CLASSES suffering from Mental and Nervous Diseases, either voluntarily, temporarily, or under certificate. Patients are classified in separate buildings according to their mental condition. Situated in park and grounds of 400 acres. Self-supported by its own farm and gardens in which patients are encouraged to occupy themselves. Every facility for indoor and outdoor recreation. For terms, prospectus, etc., apply MEDICAL SUPERINTENDENT. *'Phone:* Ashton-in-Makerfield 7311. *Tels. Address:* Street, Ashton-in-Makerfield.

THE ROYAL EARLSWOOD INSTITUTION

FOR MENTAL DEFECTIVES, REDHILL, SURREY.

(Formerly the EARLSWOOD ASYLUM.) PATRON: H.M. THE KING.

FOR THOSE REQUIRING CONTROL with EXPERT SUPERVISION and needing SPECIAL TRAINING in useful occupations, *SCHOOLS, FARMING, and various TRADE WORKSHOPS.*

Inclusive fees from £110 p.a. *THOSE UNABLE TO PAY FULL FEES* admitted by votes of subscribers with part payment towards cost.

RECREATIONS: Outdoor games. MALE STAFF BAND for Concerts, Dancing, etc.

Apply: THE MEDICAL SUPERINTENDENT, Earlswood, Redhill, Surrey, *'Phone:* REDHILL 344: or to the Secretary, Mr. H. STEPHENS, 14-16, Ludgate Hill, E.C.4, *'Phone:* CITY 4697.

NORTHUMBERLAND HOUSE

GREEN LANES,

FINSBURY PARK, N.4

A PRIVATE HOSPITAL for the treatment of mental and nervous illnesses. Conveniently situated and easy of access from all parts. Six acres of ground facing Finsbury Park. Voluntary and Temporary Patients received without certification. Occupational Therapy, Psychotherapy, and other modern forms of treatment.

Telephone: Stamford Hill 2688. *Telegrams:* "SUBSIDIARY, LONDON."

Convalescent Home, KEARSNEY COURT, DOVER.

For further particulars apply to the MEDICAL SUPERINTENDENT.

THE MAUDSLEY HOSPITAL, DENMARK HILL, S.E.5.

Telephone: RODney 3841

A CLINIC instituted by the London County Council for treatment of Nervous and Curable Mental Disorder. Voluntary Patients *only* received.

New Out-patients.—Men: Mondays and Thursdays, 2 P.M. Women: Tuesdays and Fridays, 2 P.M. Children: Mondays and Fridays, 10 A.M. In-patients (*a*) 235 beds (both sexes) in wards or separate rooms, including 35 beds in a ward of King's College Hospital which is in use as a temporary annexe of the Maudsley Hospital; (*b*) a special ward (including some private rooms) for those patients of each sex who are paying the full cost and are otherwise suitable. TERMS—£5 a week, but in case of patients with a legal settlement in the County of London a less sum may be charged according to means.

Terms include (with rare exceptions) all forms of treatment, for which there are exceptional facilities as there is a staff of Consultant Specialists, and the Central Laboratory of London County Mental Hospitals is attached to the Hospital. Inquiries of EDWARD MAPOTHER, M.D., F.R.C.P., F.R.C.S., Medical Superintendent.

VALE OF CLWYD SANATORIUM.

This Sanatorium is established for the treatment of Tuberculosis of the Lungs and the Pleural Cavities. It is situated in the midst of a large area of park-land at a height of 450 feet above sea level, on the South West slopes of mountains rising to over 1800 feet, which protect it from north and east winds and provide many miles of graduated walks with magnificent views. Average rainfall 29·57 per annum. Full day and night Nursing Staffs. X-Ray plant. Every facility for Artificial Pneumothorax and for operations on the chest. Electric Lighting. Central Heating. Home Farm. Grade A Milk from T.T. Herd.

For particulars apply to Medical Superintendent.

H. MORRISTON DAVIES, M.D., M.Ch. (Cantab.), F.R.C.S., Llanbedr Hall, Ruthin, N. Wales.

FAIRFORD RETREAT, Gloucestershire

(Within two hours of London.) ESTABLISHED 1822.

Home life for Ladies and Gentlemen MENTALLY AFFLICTED. Voluntary Patients received without Certificates. The Retreat is pleasantly situated in extensive grounds on the banks of the River Coine, a part of which celebrated trout stream flows through the Estate. There is every facility for sport and Occupational Therapy. The neighbourhood abounds in pleasant walks, and Fairford, being in the Cotswolds on a dry oolitic soil, is remarkably healthy. Own farm and dairy produce.

For terms, which are very moderate, apply to the proprietor, Dr. A. C. King-Turner, The Retreat, Fairford, Glos. Telephone 9

CAMBERWELL HOUSE

Telegrams: "PSYCHOLIA, LONDON." 33, PECKHAM RD., LONDON, S.E.5. Telephone: Rodney 4242 (2 lines).

For the treatment of MENTAL DISORDERS.

Also completely detached Villas for Mild Cases, with private suites if desired. Voluntary Patients received. Twenty acres of Grounds, Hard and Grass Tennis Courts, Putting Greens, Bowls, Croquet, Squash Rackets, Recreation Hall with Badminton Court, and all indoor amusements, including Wireless and other Concerts, Occupational Therapy, Calisthenics, and Dancing Classes. X-ray and Actino-therapy, Prolonged Immersion Baths, Operating Theatre, Pathological Laboratory, Dental Surgery, and Ophthalmic Department. Chapel.

Senior Physician: Dr. HUBERT JAMES NORMAN, assisted by three Medical Officers, also resident and visiting Consultants.

An illustrated Prospectus, giving fees which are strictly moderate, may be obtained upon application to the Secretary.

The Convalescent Branch is Hove Villa, Brighton, and is 200 feet above sea level.

PECKHAM HOUSE, 112, Peckham Road, London, S.E.15

Telegrams: "Alleviated, London." Telephone: Rodney 2641 and 2642.

The above House, which was established in 1826, is an Institution for the care and treatment of persons suffering from mental diseases and nervous disorders. Certified, Voluntary and Temporary patients are received. Separate houses for treatment and accommodation of special cases adjoin the Institution. There is a seaside branch, Kearsney Court, near Dover, to which patients may be sent for treatment or on holiday. Motor and carriage exercise is provided as required. Patients can avail themselves of a course of physical drill. Tennis Courts. Entertainment, dances, and indoor amusements held throughout the year. Terms from £3 3s. per week. Illustrated prospectus and further particulars can be obtained from the MEDICAL SUPERINTENDENT.

CHEADLE ROYAL HOSPITAL, Cheadle, Cheshire.

This REGISTERED HOSPITAL, with a SEASIDE BRANCH at Colwyn Bay, N. Wales, is for the treatment and care of those of the Upper and Middle Classes suffering from MENTAL AND NERVOUS DISEASES.

The Hospital is governed by a COMMITTEE, appointed by the TRUSTEES of the Manchester Royal Infirmary.

In addition to the Main Buildings there are separate villas. Extensive grounds. Hard and grass tennis courts, cricket and croquet grounds, and a court for badminton. There are also wireless installations. Golf may be had within easy distance. Occupational Therapy.

VOLUNTARY, TEMPORARY AND CERTIFIED PATIENTS received.

The Hospital is nine miles from Manchester, 50 minutes by rail from Liverpool, and 3½ hours from London.

For terms and further particulars apply to the Medical Superintendent, who may be seen in Manchester BY APPOINTMENT.

Telephone: Gatley 2231 (3 lines).

THE RESIDENTIAL TREATMENT OF ALCOHOLISM & DRUG ADDICTION

RENDLESHAM HALL

(Postal Address), WOODBRIDGE, SUFFOLK

RENDLESHAM HALL, which is open to receive patients, is essentially a Sanatorium. Its daily life and routine are that of an ordinary comfortable holiday or health resort, or of a large country house. Each patient has all the privileges of a guest consistent with the prescribed medical treatment.

RENDLESHAM HALL

Rendlesham Hall has 45 Bedrooms, and about 450 acres of Gardens and Park. It has also a private Nine-hole Golf Course, Tennis and Croquet Lawns, and Bowling Green.

Illustrated Booklet, giving particulars as to terms, etc., can be had on application to

THE RESIDENT MEDICAL SUPERINTENDENT

Telegrams and Telephone: WICKHAM MARKET 16. (Toll Call from London.)

Proprietors: THE NORWOOD SANATORIUM, LIMITED.

The MUNDESLEY SANATORIUM

The central building makes the Mundesley Sanatorium the best equipped building in England for the cure of Tuberculosis. All the bedrooms have hot and cold running water, electric light, and wireless head-phones. The public rooms are spacious and comfortable.

Resident Physicians:
S. VERE PEARSON, M.D. (Cantab.), M.R.C.P. (Lond.).
E. C. WYNNE-EDWARDS, M.B. (Cantab.), F.R.C.S. (Edin.).
GEORGE H. DAY, M.D. (Cantab.).

For all information apply:
THE SECRETARY,
THE SANATORIUM,
MUNDESLEY, NORFOLK.
Telephone: Mundesley 94 and 95 (2 lines)

The buildings face S.S.W. and are sheltered from the sea by a pine-clad ridge. The sunshine record and dry air complete a perfect site. The medical equipment is of the latest kind, and there is a day and night nursing staff.

TERMS FROM 7½ GUINEAS WEEKLY

RUTHIN CASTLE, NORTH WALES

A Private Hospital or Clinic for the diagnosis and treatment of Internal Diseases (except Mental or Infectious Diseases).

The weekly fees are from 15 guineas according to the room occupied; rooms with bathroom are from 21 guineas. The charges include all chemical, bacteriological, X-ray or other examinations advised by the doctors, and all the usual forms of treatment, in addition to board and lodging. There are no extra charges except for alcohol (when ordered) and laundry.

An examination and consultation fee of 15 guineas is charged on the first visit.

The climate is mild. The annual rainfall is 30·5 inches, that is, less than the average for England. There is central heating throughout.

Address—THE SECRETARY, Ruthin Castle, North Wales.

Telegrams: Castle, Ruthin. *Telephone:* Ruthin 66.

THE CLINIC

20 Devonshire Place
London, W.1

Tel.: Welbeck 4444 (20 lines)

A NURSING HOME FOR SURGICAL, MEDICAL AND MATERNITY CASES

Fees 10 gns. to 18 gns. per week (Average—14 gns.). 150 State Registered Nurses. 8 Operating Theatres. 2 Resident Medical Officers (for emergencies).
Patients only received under the supervision of their own Medical Practitioner.
Drugs and Dressings free (other than Proprietary Articles).
Illustrated Brochure on application to Secretary.

Smedley's
Great Britain's Greatest Hydro
Matlock

Unrivalled suites of Baths, Turkish and Russian Baths, Aix and Vichy Douches, Massage; Plombières Treatment, Studs Chair, and Electric Installation for Baths and other Medical purposes, Dowsing Radiant Heat, Infra Red Light, Artificial Sunlight, d'Arsonval High Frequency, Diathermy, Nauheim Baths, Soapless Foam Baths, etc. "Certified" Milk from own farm. Large winter garden. Orchestra. Special provision for invalids. Night attendance. Over 60 trained Male and Female Nurses, Masseurs, Attendants, etc.
Resident Physicians: G. C. R. HARBINSON, M.B., B.Ch., B.A.O.(R.U.I.), R. MACLELLAND, M.D., C.M.(Edin.). **TERMS, 13s. to 18s. per day, inclusive of board.**
Illustrated Brochure C.J. and full information on request.
Telephone—No. 17 (3 lines). *Telegrams*—Smedleys, Matlock.

SUNNYSIDE RESTORIUM
Hassocks, Sussex

The Ideal Centre for Patients convalescing after Illness or Operation, and for those requiring treatment by Physical Methods.

One hour from London, fifteen minutes from Brighton. Situated in delightful grounds overlooking the South Downs, The Sunnyside Restorium with its Southerly aspect and sheltered from cold winds enjoys a climate Mild but not Relaxing, the maximum of Sunshine and a complete freedom from Fogs.

Formed on the American Plan, patients reside in the cheerful atmosphere of a fully licensed, high-class Country Hotel with every modern convenience, yet home comforts, and free from the irksome restrictions of Nursing Home or Clinic.

TREATMENTS available include Foam and other Baths, Radiant Heat, Ultra-violet and Infra-red Ray, Diathermy, Electro-therapy, Massage, Remedial Exercises, etc. Special Dieting when required. All treatments are given by fully qualified Massage Staff, under the supervision of the Resident Physician.

Special attention given to visitors from overseas who are in England for treatment or observation by London Consultants.

LIFT to All Floors.

An invitation is extended to Medical Practitioners to visit the Restorium. Reduced Terms to Doctors and their Families.

Write for Fully Illustrated Brochure and Terms to:—
THE RESIDENT PHYSICIAN,
SUNNYSIDE RESTORIUM, HASSOCKS, SUSSEX.
Telephone: Hassocks 103.

DR. BINSWANGER
SANATORIUM BELLEVUE
KREUZLINGEN
LAKE OF CONSTANCE — SWITZERLAND

for Nervous and Mental cases
as well as all kinds of addiction
(Insulin shock treatment)

Doctor in charge: DR. LUDWIG BINSWANGER
Prospectus on application to the Management

PORTSMOUTH CITY MENTAL HOSPITAL

Accommodation is provided for the reception of PRIVATE PATIENTS of both sexes in three detached Villas, which are healthily and pleasantly situated in extensive grounds with sea views.

Charges from 3 guineas weekly, including all necessaries except clothing.—Apply to the Medical Superintendent and Resident Physician, THOMAS BEATON, O.B.E., M.D., F.R.C.P.

Hospital for Diseases of the Skin, Blackfriars.

Applications are invited for positions as CLINICAL ASSISTANTS. Preference will be given to those with dermatological experience.

Applications, with testimonials in support, must be sent before March 15th to L. MUNDY, Secretary to the Hospital for Diseases of the Skin, 71, Blackfriars-road, S.E.1, from whom any further information may be obtained.

Hospital for Diseases of the Skin, Blackfriars.

The Committee of Management will shortly appoint an additional member of the HONORARY STAFF. Candidates must either be Members of the Royal College of Physicians (London) or Fellows of the Royal College of Surgeons (England).

Applications, with testimonials in support, must be sent before March 15th to L. MUNDY, Secretary to the Hospital for Diseases of the Skin, 71, Blackfriars-road, S.E.1, from whom any further information may be obtained.

Royal Free Hospital, Gray's Inn-road, W.C.1.

Applications are invited from duly qualified and registered Medical Women for the following post:—

RESIDENT CASUALTY OFFICER

Duties to commence 1st April, 1938, for six months. Salary £150 per annum.

Candidates must have held previous resident Hospital appointments.

Application form may be had from the undersigned and should be duly filled in and returned on or before the 5th March, 1938.

RICHARD T. BARTLEY, Secretary.

The Queen's Hospital for Children, Hackney-road, E.2.

CLINICAL ASSISTANT to Medical Out-patients required. Attendance on Saturday at 9.30 A.M. for about 2½ hours. An honorarium of 5s. per attendance will be paid. The appointment will be for six months in the first instance and cannot be held for longer than two years.

Applications, with copies of not more than three testimonials, should be addressed to the undersigned.

CHARLES H. BESSELL, Secretary.

3rd February, 1938.

London Hospital, E.1.

A vacancy occurs for the post of PHYSICIAN to the London Hospital. An Assistant Physician is a candidate for the post.

ARTHUR G. ELLIOTT, House Governor.

London Hospital, E.1.

There is a vacancy for the post of ASSISTANT PHYSICIAN at this Hospital.

Candidates must be Members of the Royal College of Physicians in London.

Applications should be sent to the House Governor and should arrive not later than Saturday, 12th March, 1938.

ARTHUR G. ELLIOTT, House Governor.

County Council of Middlesex.

RESIDENT CASUALTY MEDICAL OFFICER.

Applications are invited for the above appointment at WEST MIDDLESEX COUNTY HOSPITAL, ISLEWORTH. Candidates must be registered Medical Practitioners who have held the post of both House Physician and House Surgeon at a general hospital, and have had considerable all-round experience.

Salary £350 per annum, with board, lodging, and laundry, valued at £100 per annum.

The officer appointed will be required to deal with casualties and admissions to the hospital, and to carry out such other duties as may be allotted to him.

The appointment, which does not at present carry any superannuation rights, will be subject to medical examination, is for a period of six months in the first instance, may be extended for an additional six months, and is terminable by one month's notice on either side.

The officer appointed will work under the direction of the Medical Superintendent and will devote his whole time to official duties.

Applications, stating age, qualifications, and experience, together with copies of not more than three recent testimonials, must be received by the undersigned not later than 26th February. Application forms are not provided. Envelopes must be endorsed "Casualty Medical Officer, West Middlesex County Hospital." Relationship to any member or officer of the Council must be disclosed in the application.

Canvassing, directly or indirectly, will be a disqualification.

C. W. RADCLIFFE, "B3"
Clerk of the County Council.

Middlesex Guildhall, Westminster, S.W.1, 1st February, 1938.

Westminster Hospital,

BROAD SANCTUARY, S.W.1.

A vacancy has been declared in the office of PHYSICIAN to the Hospital. Candidates must be Fellows of the Royal College of Physicians, London, and they are required to submit a certificate of age, thirty copies of their applications, with thirty copies of each of three testimonials, to the undersigned not later than Monday, 21st February, 1938.

Candidates will be required to attend the House Committee on Tuesday, 22nd February, 1938, at 4 P.M. The Senior Physician in charge of out-patients is a candidate for the office.

By order of the House Committee.
CHARLES M. POWER, Secretary.

County Council of Middlesex.

OBSTETRIC SURGEON.

Applications are invited from registered Medical Practitioners for the appointment on the pensionable staff of an Obstetric Surgeon (Grade II) at West Middlesex County Hospital, Isleworth. The appointment is a senior one in the Council's general hospital service, and applicants are expected to be Medical Men or Women of high qualifications and professional attainments, who have devoted their time wholly or chiefly to the practice of obstetrics and gynæcology. The successful candidate will work under the direction of the Medical Superintendent of the hospital, and the whole of his time must be given to his official duties. He must be prepared to undertake the teaching of midwives and students, if required, and to carry out such other duties as the County Council may from time to time direct.

Salary £650 per annum, rising by annual increments of £50 to £900; and after eight years' service in this grade, two additional annual increments of £50 each. The salary is inclusive, and any fees received by the officer appointed must be paid over to the County Council.

The appointment is non-resident, and the successful candidate will be required to reside within a short distance of the hospital. In the case of an unmarried officer, if accommodation is available, board, lodging, laundry, and service may be provided by the County Council, and in this event a deduction of £150 per annum will be made from the officer's salary.

The appointment, which will be subject to medical examination, will be held during the pleasure of the Council, and is terminable by three months' notice on either side.

Applications, stating age, qualifications, and experience, together with copies of not more than three recent testimonials, must be received by the undersigned not later than 26th February. Relationship to any member or officer of the Council must be disclosed in the application. Application forms are not provided. Envelopes must be endorsed "Obstetric Surgeon, West Middlesex County Hospital."

Canvassing, directly or indirectly, will be a disqualification.

C. W. RADCLIFFE, "B3," Clerk of the County Council.

Middlesex Guildhall, Westminster, S.W.1,
3rd February, 1938.

The Royal Eye Hospital,

St. George's-circus, Southwark, S.E.1.

SENIOR HOUSE SURGEON and Two ASSISTANT HOUSE SURGEONS required at the above Hospital. The appointment is in the first instance for a period of six months, with board and residence, as from 1st April.

Salaries: Senior House Surgeon at the rate of £150 per annum; Assistant House Surgeons at £100 per annum.

Candidates must be registered Practitioners.

Applications, with copies of three recent testimonials, should be sent to the Secretary not later than Tuesday, 1st March.

F. E. D'ALTON, Secretary.

The Prince of Wales's General Hospital,

London, N.15.

Applications are invited for the post of HONORARY MEDICAL REGISTRAR.

Honorarium £100 per annum.

Candidates must be Graduates in Medicine of a British University, or be Members of a Royal College of Physicians.

Applications, together with copies of three testimonials, to be sent to the undersigned on or before March 1st, 1938.

J. C. BURDETT, Director and House Governor.

The Prince of Wales's General Hospital,

London, N.15.

The following Resident posts will be vacant on March 15th next:—

(*a*) One JUNIOR HOUSE PHYSICIAN.
(*b*) Two JUNIOR HOUSE SURGEONS.

Salary at the rate of £90 per annum, board, residence, and laundry.

Appointments held for six months, but holders are eligible for a further term as Senior.

Candidates (Male and unmarried) must be fully qualified and registered, and applications (on the prescribed form), together with copies of three recent testimonials, should be sent to the undersigned on or before March 1st, 1938.

J. C. BURDETT, Director and House Governor.

1st February, 1938.

Queen Mary's Hospital for the East

End, E.15.

Applicants are invited for the post of HONORARY ASSISTANT OBSTETRIC AND GYNÆCOLOGICAL SURGEON at the above Hospital.

Candidates must be Fellows of the Royal College of Surgeons of England and Members or Fellows of the British College of Obstetricians.

Applications, with copies of three recent testimonials, should be forwarded to the undersigned not later than Thursday, the 24th of February, 1938.

RAPHAEL JACKSON, Major, Secretary.

County Council of Middlesex.

PHYSICIAN (GRADE I).
REDHILL COUNTY HOSPITAL, EDGWARE.

Applications are invited from registered Medical Practitioners for the above appointment on the pensionable staff. The appointment is a senior one in the Council's general hospital service and applicants are expected to be Medical Men or Women of high qualifications and professional attainments, who are devoting their time wholly or chiefly to the practice of clinical medicine. The officer appointed will work under the direction of the Medical Superintendent of the Hospital and will give his whole time to the duties of the post. He must be prepared to undertake the teaching of nurses and, if required, of students, and to carry out such other duties as the Council may from time to time direct.

The Hospital is one of 225 beds for acute medical and surgical cases and for maternity. Large extension of over 300 further beds are nearing completion. In addition to a full-time physician, surgeon, obstetrician, and pathologist, there is a resident medical staff of five and a part-time radiologist, pathologist, and dental surgeon.

Salary £1000 per annum, rising by annual increments of £50 to £1500 per annum. The salary is inclusive and any fees received by the officer appointed must be paid over to the Council.

The appointment is non-resident, but the successful candidate will be required to reside within a short distance of the Hospital. The appointment, which will be subject to medical examination, will be held during the pleasure of the Council, and is terminable by three months' notice on either side.

Applications, stating age, qualifications, and experience, together with copies of not more than three recent testimonials, must be received by the undersigned not later than 26th February. Relationship to any member or officer of the Council must be disclosed in the application. Application forms are not provided. Envelopes must be endorsed "Physician, Redhill County Hospital."

Canvassing, directly or indirectly, will be a disqualification.

C. W. RADCLIFFE, "B3," Clerk of the County Council.

Middlesex Guildhall, Westminster, S.W.1.
3rd February, 1938.

St. Bartholomew's Hospital.

APPOINTMENT OF DENTAL HOUSE SURGEON.

Applications are invited for the office of House Surgeon to the Dental Department. Candidates must hold a registrable Dental qualification, and a Medical qualification in addition is desirable but not essential.

Candidates will be required to call upon the three Dental Surgeons, and the three Assistant Dental Surgeons.

Appointment will be made for six or twelve months as from the 1st May, 1938.

The salary attaching to the office is £80 per annum (non-resident).

Twelve copies of applications with testimonials should be left with the undersigned not later than Monday, 28th February, 1938.

C. C. CARUS-WILSON.

8th February, 1938.

ROYAL NAVAL MEDICAL SERVICE

Vacancies exist for MEDICAL OFFICERS in the Royal Navy, and applications are invited for entry in April, 1938.

Candidates below the age of 28 years are preferred and they must be registered under the Medical Acts. No examination in professional subjects will be held but candidates will be required to attend for interview by a Selection Board.

Selected candidates will be entered for Service for a period of three years in the first instance, which may be extended to five years at the discretion of the Admiralty.

At the end of three years' service officers may retire with a gratuity of £400, but those who serve for five years will receive £1,000.

At the end of five years' Short Service permanent commissions will be given to selected officers who wish to make the Naval Medical Service their permanent career. Officers transferred to the permanent list will receive a gratuity of £1,000 (less Income Tax).

Opportunities are available for officers on the permanent list to specialise, and ample provision is made for Post-graduate study.

Copies of the regulations for entry and conditions of Service, including rates of pay and allowances, may be obtained from the Medical Director-General of the Navy, Admiralty, S.W.1, and from the Deans of all Medical Schools.

Applications for entry from intending candidates must be received not later than 28th February, 1938.

Charing Cross Hospital.

SURGICAL REGISTRAR.

The Council invite applications from candidates, who must be registered Medical Practitioners (Male), for the post of Second Surgical Registrar. Honorarium £150 per annum.

A copy of the regulations can be obtained from the undersigned, to whom applications, together with copies of three recent testimonials, must be submitted not later than Monday, 28th February, 1938.

GEORGE J. JONES, Secretary.

Charing Cross Hospital, London, W.C.2.

Central London Ophthalmic Hospital,

Judd-street, St. Pancras, W.C.1.

Applications are invited from registered Medical Practitioners for the posts of SENIOR and JUNIOR HOUSE SURGEON, vacant on March 31st. The Junior House Surgeon is a candidate for the Senior post. Salary £120 and £100 per annum respectively, with board and residence.

Applications, with copies of three testimonials, should reach the Secretary on or before February 28th.

The Queen's Hospital for Children,

Hackney-road, London, E.2.

HOUSE PHYSICIAN required 1st April, 1938.

EAR, NOSE AND THROAT HOUSE SURGEON required 1st April, 1938.

Six months' appointments. Salary at the rate of £100 per year, with board, lodging, and laundry in each case.

Applications must be made on forms to be obtained from the undersigned, and must be sent in, with copies of not more than four testimonials, on or before the 7th March, 1938.

10th February, 1938. CHARLES H. BESSELL, Secretary.

General Lying-In Hospital,

York-road, Lambeth, S.E.1.

Applications invited for the post of JUNIOR RESIDENT MEDICAL OFFICER and ANÆSTHETIST. Salary at the rate of £100 per annum with board, residence, and laundry. Appointment for three months, commencing 1st April, 1938. The successful candidate will, subject to satisfactory service, be required to succeed to the Senior Medical Officer's post for a further three months.

Applications, stating age and qualifications, with copies of three recent testimonials, to be sent to the Secretary not later than Monday, 7th March, 1938.

The Infants Hospital,

Vincent-square, Westminster.

Applications are invited for the post of HOUSE PHYSICIAN (either sex). Salary at the rate of £100 per annum, with board, residence, and laundry.

The appointment is for six months from April 1st.

Applications, with copies of testimonials, to be forwarded to the undersigned not later than February 28th.

ALFRED J. SMALL, Secretary.

Dreadnought Hospital,

Greenwich, S.E.10. (Seamen's Hospital Society.)

HOUSE PHYSICIAN required for six months from the 1st April. Salary £110 per annum and a proportion of fees, with board, residence, and laundry. Candidates must be male and single.

Applications, with copies of three testimonials, to be sent in on or before 2nd March to the undersigned.

F. A. LYON, Secretary.

11th February, 1938.

Dreadnought Hospital,

Greenwich, S.E.10. (Seamen's Hospital Society.)

HOUSE SURGEON required for six months from 1st April. Salary £110 per annum and a proportion of fees, with board, residence, and laundry. Candidates must be male and single. Duties include attendance once a week at V.D. Clinic and charge of V.D. beds for which there is a special honorarium of £25.

Applications, with copies of three testimonials, to be sent in on or before 2nd March to the undersigned.

F. A. LYON, Secretary.

11th February, 1938.

Albert Dock Hospital,

Connaught-road, E.16. (Seamen's Hospital Society).

RESIDENT MEDICAL OFFICER required for six months from 1st April. Salary £110 per annum and a proportion of fees, with board, residence, and laundry. Candidates must be male.

Applications, with copies of three testimonials, to be sent in on or before the 2nd March, to the undersigned.

F. A. LYON, Secretary, Seamen's Hospital Society.

11th February, 1938.

INSTITUTE OF PSYCHO-ANALYSIS

A Course of three Lectures will be given on Tuesdays at 8.30 P.M., at 96, Gloucester-place, W.1.

By Dr. EDWARD GLOVER
on
GASTRIC AND CIRCULATORY DISTURBANCES

on MARCH 22ND and 29TH and APRIL 5TH.

Each lecture will be followed by a discussion.

Fees for the Course: For medical practitioners 5s.; for medical students, 2s. 6d. Single lectures 2s. and 1s. respectively. Payable at the door.

The Grocers Company offer each year

ONE SCHOLARSHIP for the encouragement of Original Medical Research into the Causation of Prevalent Disease or as to Means of Preventing Premature Death. The award, which is tenable for two years from 1st September, is of £300 for the first year and £450 for the second year, in addition to which the Court will grant up to £150 a year towards the cost of special apparatus, &c., required by the Scholar. Candidates should not be more than thirty-five years of age and should submit their applications to the undersigned before the 1st May.

Grocers' Hall, E.C.2. L. HICKMAN BARNES, Clerk.

County Council of Middlesex.

THE COUNTY (TUBERCULOSIS) SANATORIUM, HAREFIELD, MIDDLESEX.

JUNIOR RESIDENT ASSISTANT MEDICAL OFFICER.

Applications are invited for the above appointment. Candidates must be registered Medical Practitioners, who have held resident appointments in a General Hospital. Experience in the diagnosis and treatment of tuberculosis will be an additional qualification. Salary £250 per annum, with board, lodging, and laundry.

The officer appointed will work under the direction of the Medical Superintendent, and will devote his whole time to official duties.

The appointment (which does not at present carry any superannuation rights, will be subject to medical examination and is terminable by one month's notice on either side) is for a period of six months in the first instance, and may be extended for an additional six months.

Applications, stating age, qualifications, and experience, together with copies of not more than three recent testimonials, must be received by the undersigned not later than 5th March. Relationship to any member or officer of the Council must be disclosed in the application.

Application forms are not provided. Envelopes must be endorsed "Junior Assistant Medical Officer, Harefield Sanatorium." Canvassing directly or indirectly will be a disqualification.

C. W. RADCLIFFE, "B3"
Clerk of the County Council.

Middlesex Guildhall, Westminster, S.W.1.
9th February, 1938.

London County Council.

Applications invited for temporary position of ASSISTANT AURIST (Part-time) in connexion with Council's School Medical Service. Not less than two sessions (2½ hours each) a week during school terms. Remuneration 34s. 6d. a session. Applicants must hold the M.S. degree of a British university or F.R.C.S. qualification of England, Scotland or Ireland, and must have had experience in ionisation.

Applications (in letter form) giving date and place of birth, war service (if any), qualifications and experience, and enclosing copies of testimonials, should be addressed to Medical Officer of Health (S.D.5), County Hall, Westminster Bridge, S.E.1, to reach him by 5th March. Canvassing disqualifies.

ROYAL NAVAL DENTAL SERVICE

Applications are invited for appointment to Commissions as DENTAL OFFICERS in the Royal Navy.

Candidates must be British subjects below the age of twenty-eight years, and preferably unmarried. They must hold the degree or diploma of a British University or College of Surgeons and be registered under the Dentists' Act or Medical Acts, and will be required to attend at the Admiralty for interview and physical examination.

Copies of the regulations for entry, rates of pay and allowances, and forms of application may be obtained from the MEDICAL DIRECTOR-GENERAL OF THE NAVY, ADMIRALTY, S.W.1, and from the Deans of Dental Schools.

Royal Northern Hospital,

Holloway, N.7.

Applications are invited for the post of PATHOLOGICAL REGISTRAR. The appointment is for one year with eligibility for re-election. Times of attendance on application.

Honorarium £200 per annum, with lunch and tea provided.

Applications, with copies of testimonials, should be sent by March 4th to the undersigned, from whom the necessary forms of application and rules can be obtained.

GILBERT G. PANTER, Secretary.

West London Hospital,

Hammersmith-road, W.6.
(239 Beds.)

Required, One HOUSE PHYSICIAN and One HOUSE SURGEON. The duties of the House Physician include some work in the Children's Department and the House Surgeon will have some work in the Genito-Urinary Department. These appointments (Males) are tenable for six months from 1st April next, subject to one month's notice on either side. Salary at the rate of £100 a year, with board, lodgings, and laundry allowance. Candidates must be registered under the Medical Act.

Applications (which must be made on printed forms obtained from me) must reach me not later than the first post on Wednesday 16th March. Selected candidates will be required to call upon such Members of the Medical Staff as directed, to be in attendance at the Medical Council Meeting on Friday, 25th March, at 4.30 P.M., and the House Committee Meeting at 5 P.M. the same day, when the appointments will be made.

H. A. MADGE, Secretary.

St. Bartholomew's Hospital.

RESIDENT ASSISTANT PHYSICIAN-ACCOUCHEUR
AND
DEMONSTRATOR OF PRACTICAL MIDWIFERY.

Applications are invited for the post of Resident Assistant Physician-Accoucheur and Demonstrator of Practical Midwifery.

Candidates must be Fellows of the Royal College of Surgeons of England.

The salary attached to the Office is fifty guineas per annum, with residence in the Hospital, plus £1000 per annum payable by the Medical College.

Appointment will be made for one year as from the 1st July, 1938, with eligibility for re-election.

Applications, with testimonials (copies only), should reach the undersigned not later than Saturday, 5th March, 1938.

C. C. CARUS-WILSON, Acting Clerk to the Governors.

14th February, 1938.

Royal National Orthopædic Hospital.

Applications are invited for the posts of HOUSE SURGEONS (two, Male, unmarried), for a period of six months commencing April 1st, renewable for a further period of six months, on the recommendation of the Medical Board. £150 per annum, with full board, quarters, and laundry. Applicants should be registered Medical Practitioners.

Applications, with copies of testimonials, should be sent to the House Governor, 234, Great Portland-street, W.1, not later than March 11th.

The Royal Cancer Hospital (Free)

(Incorporated under Royal Charter),
Fulham-road, London, S.W.3.

Applications are invited for the post of HOUSE SURGEON to commence duties on the 1st April, 1938.

Salary at the rate of £100 per annum. The appointment is for six months and subject to rules, a copy of which may be obtained from the Secretary.

Applications, to be made on a form which will be supplied by the Secretary, together with three (copies only) testimonials, to be sent to the undersigned not later than first post on Friday, 11th March, 1938.

CLEMENT COBBOLD, Secretary.

Royal London Ophthalmic Hospital

(MOORFIELDS EYE HOSPITAL), City-road, E.C.1.

Applications are invited for the posts of two OUT-PATIENT OFFICERS, to attend on Wednesdays and Fridays (mornings) each week.

Candidates must be registered Medical Practitioners.

Salary at the rate of £100 per annum. The Out-patient Officers will be appointed for a period of one year and will be eligible for re-appointment.

Copies of regulations can be obtained on application.

Applications, with testimonials, stating age and qualifications, together with photograph, must be received by the undersigned not later than 28th February, 1938.

A. J. M. TARRANT, Secretary.

The Salvation Army.

THE MOTHERS' HOSPITAL.
Lower Clapton-road, Clapton, E.5.

Applications are invited from Medical Women for the post of JUNIOR RESIDENT MEDICAL OFFICER—vacant April 1st, 1938. Salary £80 per annum, with board, residence, and laundry. The appointment is for six months.

Applications, with testimonials, must be sent to the Secretary on or before Saturday, March 5th, 1938.

FRED HAMMOND (Secretary).

London Jewish Hospital,

Stepney Green, E.1.

Applications are invited for the appointment of HONORARY CLINICAL ASSISTANTS in the following Out-patient Departments: Medical; Surgical; Gynæcological; Ear, Nose, and Throat; Ophthalmic; Skin; Children's Diseases; and Dental.

Forms of application may be obtained from the secretary.

The Royal Cancer Hospital (Free).

(Incorporated under Royal Charter),
Fulham-road, London, S.W.3.

Applications are invited for the post of SECOND ASSISTANT PATHOLOGIST to commence duties on the 4th April, 1938.

Salary £250 per annum. The appointment is for twelve months and subject to rules, a copy of which may be obtained from the Secretary.

Applications, to be made on a form which will be supplied by the Secretary, together with three (copies only) testimonials, to be sent to the Secretary not later than the first post on Friday, 11th March, 1938.

CLEMENT COBBOLD, Secretary.

Royal Hospital, Richmond, Surrey.

Applications are invited for the following posts, which fall vacant on the 1st April, 1938:—

RESIDENT MEDICAL OFFICER (Male). £200 per annum.
SENIOR HOUSE SURGEON (Male). £150 per annum.
JUNIOR HOUSE SURGEON (Male). £100 per annum.

In the case of the two Senior appointments, the Hospital is officially recognised for the surgical practice required before admission to the Final Fellowship Examination of the Royal College of Surgeons of England.

Board, furnished apartments, and laundry. Candidates must be fully qualified, registered, and single. Form of application can be obtained from the undersigned.

G. M. EDEN, Secretary-Superintendent.

Central London Throat, Nose, and EAR HOSPITAL, Gray's Inn-road, W.C.1.

RESIDENT HOUSE SURGEON (Male).

There is a vacancy for a Third Resident House Surgeon to enter on duty immediately. The appointment will be for a period of ten months; four months as Third House Surgeon, three months as Second House Surgeon, and three months as First House Surgeon. Remuneration at the rate of £75 per annum.

Applications, accompanied by copies of not more than three testimonials, should be sent to the undersigned immediately.

JOHN H. YOUNG, Secretary-Superintendent.

Royal Eye Hospital,

St. George's-circus, Southwark, S.E.1.

RESEARCH UNIT.

Applications are invited for the newly created posts of RESEARCH ASSISTANTS (unpaid). Further particulars can be obtained from the Dean.

Applications should be sent to the Dean not later than March 14th.

A. SORSBY, Dean.

Northampton General Hospital.

(351 Beds.)

There will be the following seven vacancies for Resident Medical Officers:—

On 1st March: One HOUSE SURGEON to THE EAR, NOSE AND THROAT DEPARTMENT.
On 1st April: One HOUSE PHYSICIAN.
Three HOUSE SURGEONS.
Two CASUALTY OFFICERS.

Salaries will be at the rate of £150 per annum, with board, residence, and laundry. Candidates, who must be duly qualified and registered, must be Males, and of British nationality.

The successful candidates will be elected for a period of six months (House Surgeon to the Ear, Nose, and Throat Department seven months), and will be eligible for re-election for a further period of six months.

Applications, stating age, qualifications, &c., with copies of three testimonials, must reach the undersigned not later than the first post on Wednesday, 2nd March, 1938.

GORDON S. STURTRIDGE, M.B., Superintendent.

14th February, 1938.

Surrey County Council.

PUBLIC HEALTH DEPARTMENT.
KINGSTON COUNTY HOSPITAL. (530 Beds.)

RESIDENT ASSISTANT MEDICAL OFFICER.

Applications are invited from registered Medical Practitioners for the appointment of Resident Assistant Medical Officer at the Kingston County Hospital, Kingston-on-Thames.

The Medical Officer appointed should preferably have had previous experience as House Physician or House Surgeon.

The appointment is for a period of six months, renewable for a further period of six months, and the salary is at the rate of £250 per annum, together with full residential emoluments valued at £125 per annum, making an aggregate of £375 per annum.

Applications, stating age, qualifications, and experience, and enclosing copies of not more than three recent testimonials, should be addressed to the Medical Superintendent, Kingston County Hospital, Wolverton-avenue, Kingston-on-Thames, so as to be received not later than 23rd February, 1938.

DUDLEY AUKLAND, Clerk of the Council.

County Hall, Kingston-upon-Thames, 12th February, 1938.

County of Dorset.

MEDICAL OFFICER OF HEALTH
FOR
SHAFTESBURY BOROUGH, SHAFTESBURY, STURMINSTER AND SHERBORNE RURAL DISTRICTS AND SHERBORNE URBAN DISTRICT
AND
ASSISTANT COUNTY MEDICAL OFFICER.

Applications are invited from Medical Practitioners not exceeding forty years of age for the joint whole-time appointment of Assistant County Medical Officer and Medical Officer of Health for the Shaftesbury Borough, Shaftesbury, Sturminster and Sherborne Rural Districts, and the Sherborne Urban District (population about 31,000). The appointment as Medical Officer of Health will, in the first instance, be in respect of the first three-named districts only and in respect of the last two-named districts when vacancies occur.

The salary for the combined appointment will be £800 per annum, together with a travelling allowance of £100 per annum, an office allowance of £50 per annum, and necessary out-of-pocket expenses according to the scales now in force.

Applicants must be qualified in accordance with Article 8 of the Sanitary Officers' (Outside London) Regulations, 1935, and hold the Diploma in Public Health or similar qualification.

The candidate appointed will, as regards his duties as Assistant County Medical Officer, come under the direction of the County Medical Officer of Health and will be required to perform such duties as may be from time to time prescribed. As regards his duties as Medical Officer of Health, he will be subject to the control and direction of the District Councils concerned.

The post will be designated under the Local Government and Other Officers' Superannuation Act, 1922, and the successful candidate will be required to pass a medical examination. He will also be required to reside within the area for which he is Medical Officer of Health and to take up his appointment on the 1st July, 1938.

Candidates must apply on the prescribed form, to be obtained from the undersigned, by whom applications, accompanied by copies of not more than three recent testimonials, must be received not later than Saturday, the 12th March, 1938.

Canvassing in any form will be a disqualification.

C. P. BRUTTON, Clerk of the County Council.

County Offices, Dorchester, 15th February, 1938.

Monmouthshire County Council.

ASSISTANT MEDICAL OFFICERS (Female)
(One Permanent and One Temporary).

The Council invite applications from duly qualified and registered Medical Practitioners (Females) not exceeding thirty-five years of age, holding a Diploma in Public Health and State Medicine, for the appointment of Assistant Medical Officer, to undertake mainly the Medical Inspection and Treatment of School-children and, in addition, Maternity and Child Welfare work, and the Investigation of Sanitary Conditions generally.

Experience in the correction of errors of refraction and the administration of anæsthetics will be essential.

There are two appointments, one Permanent and one Temporary.

The salary for the Permanent post will be £500 per annum, rising by annual increments of £25 to £750, and for the Temporary appointment £500 per annum, with third-class rail fares and subsistence allowance according to the Council's scale.

The successful candidate will be required to act under the direction and supervision of the County Medical Officer; to devote whole time to the service of the County Council, and to reside in such place as the Council may determine.

The Permanent post will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922.

A schedule of the duties to be performed, together with conditions of appointment and a form of application, can be obtained from the undersigned, to whom applications, accompanied by copies of not more than three recent testimonials, are to be sent by the 7th March, 1938.

D. ROCYN JONES, County Medical Officer.

The County Hall, Newport, Mon.
14th February, 1938.

Brighton County Borough Mental HOSPITAL, HAYWARDS HEATH, SUSSEX.

Appointment of SECOND ASSISTANT MEDICAL OFFICER. Applications are invited for the above post. Salary £500 per annum, increasing by £50 per annum on approved service to £600 per annum with an addition of £50 per annum for holding or becoming the holder of the D.P.M.

The age of the candidate should not exceed 35 years. A cash allowance of £75 per annum will be given until a house is provided during which time a charge will be made for meals taken in the Hospital when on duty. A similar allowance will be made to an Officer desirous of having full board and lodging in the Hospital, but in that event the charge will be at the rate of £100 per annum.

The appointment will be subject to the provisions of the Asylums Officers' Superannuation Act, 1909.

Applications, with copies (not originals) of three recent testimonials, stating General Hospital, Mental Hospital, and Laboratory experience, to be sent to the Medical Superintendent and to be received by 28th February, 1938.

West Kent General Hospital
(Incorporated),
MAIDSTONE. (136 Beds.)

Applications are invited for the post of HOUSE SURGEON, who must be a Male of British nationality, and unmarried.

Salary at the rate of £175 per annum, with board, apartments, and laundry.

Candidates must possess registered qualifications.

Applications, stating qualifications and experience, together with copies of testimonials, should be sent to the undersigned on or before 1st March, 1938.

The successful candidate will be required to take up residence on 10th March, 1938.

EDWARD J. GREGG, House Governor and Secretary.

Lancashire County Council.

SCHOOL MEDICAL AND CHILD WELFARE DEPARTMENT.

APPOINTMENT OF AN ASSISTANT COUNTY MEDICAL OFFICER.

The Lancashire County Council invite applications from registered Medical Practitioners for the post of an Assistant County Medical Officer.

Applicants must not be over forty years of age and must possess the Diploma in Public Health.

The duties of the post include the Medical Inspection of school-children; work under the Maternity and Child Welfare Acts; general Public Health work; and such other duties as may from time to time be imposed by the County Council.

The candidate appointed will be required to devote his whole time to the service of the County Council, to pass a medical examination, and to contribute to the Council's Superannuation Fund. The salary will be £800 a year, rising subject to satisfactory service, by annual increments of £50, to a maximum of £1000 a year, together with travelling expenses.

Applications must be made upon a form which can be obtained, together with further particulars, from the County Medical Officer of Health, School Medical and Child Welfare Department, County Offices, Preston, to whom the completed forms should be returned not later than the 1st March, 1938. All communications must be endorsed "Assistant County Medical Officer."

Any form of canvassing is strictly forbidden, and will disqualify.

GEORGE ETHERTON, Clerk of the County Council.

County Offices, Preston, February, 1938.

The St. Helens Hospital.

Applications are invited for the position of JUNIOR HOUSE SURGEON (Male) to this Hospital at a salary of £150 per annum, plus, board, residence, and laundry.

Applications, stating age and nationality, accompanied by copies of three recent testimonials, to be sent to the Secretary, the St. Helens Hospital, St. Helens, Lancashire, not later than Tuesday, the 22nd February.

The successful applicant will be required to commence duties on the 1st March next.

Royal Manchester Children's Hospital,
PENDLEBURY.

Applications are invited for the posts of Two Non-resident ASSISTANT MEDICAL OFFICERS at the Out-patients' Department, Gartside-street, Manchester. Salary at the rate of £150 per annum, and the appointments are for a period of six months, one from 1st March, 1938, and one from 1st April, 1938. Candidates must be on the Medical Register.

Particulars of duties can be obtained from the Secretary. The hours of duty are from 9 A.M. till 1 P.M., or until the work of the Dispensary is finished. Patients' attendances number about 100,000 per annum.

Applications, stating age, and accompanied by copies of not more than three testimonials, to be sent to the undersigned immediately. Canvassing, directly or indirectly, may disqualify.

By Order,
H. HEARDMAN, Secretary.

Essex County Council.

JUNIOR ASSISTANT MEDICAL OFFICER.

The County Council of the Administrative County of Essex invite applications for the appointment of Junior Assistant Medical Officer at the BLACK NOTLEY SANATORIUM, near BRAINTREE.

This Sanatorium has 300 beds for the treatment of pulmonary and non-pulmonary tuberculosis in men, women, and children, and has all modern facilities for diagnosis and treatment, together with a staff of visiting Specialists.

The appointment is for a period of one year, and the salary will be at the rate of £250 per annum, together with board, lodging, and laundry. The successful applicant will be required to pass a medical examination, and will be subject to the Council's Sick Pay Rules and Regulations, a copy of which will be forwarded on application.

Applications in candidate's own handwriting, stating age, qualifications, and experience, accompanied by copies of not more than three recent testimonials (which will not be returned), should be addressed to me and delivered at the County Hall, Chelmsford, not later than 10 A.M. on Thursday, the 24th February, 1938.

E. S. HOLCROFT, Clerk of the County Council.

County Hall, Chelmsford, 7th February, 1938.

Doncaster Royal Infirmary and
DISPENSARY.
(185 Beds.)

CASUALTY HOUSE SURGEON (Male) required immediately. Salary at the rate of £175 per annum, with residence, board, and laundry.

Applications, accompanied by not more than three testimonials, to be sent to the Secretary-Superintendent.

General Infirmary, Salisbury.
(Voluntary Hospital, 194 Beds, now in course of extension to 215 Beds.)

HOUSE SURGEON (Male) required to commence duty 17th March, 1938.

The appointment is for six months, with the right of applying for re-appointment for a further period of six months. Candidates must be unmarried, fully qualified, and registered.

Salary £125 per annum, with board-residence.

Applications, with copies of testimonials, to be sent to the House Governor and Secretary, from whom a copy of the rules may be obtained.

City of Plymouth.

CITY GENERAL HOSPITAL. (570 Beds.)

Applications are invited from duly qualified and registered Medical Practitioners for the following posts:—

(1) ASSISTANT MEDICAL OFFICER.

Salary at the rate of £300 per annum, with full residential emoluments. All fees received by the Officer must be refunded to the Council.

The appointment will be for a period of twelve months, terminable by one month's notice on either side. Previous experience in a maternity hospital or in the maternity wards of a general hospital is essential. As the duties of the post also include general work, preference will be given to candidates who have had such experience.

(2) JUNIOR ASSISTANT MEDICAL OFFICER.

Salary at the rate of £250 per annum, with full residential emoluments. All fees received by the Officer must be refunded to the Council.

The appointment will be for a period of six months in the first instance, and renewable for a further period of six months, and will be terminable by one month's notice on either side.

Forms of application may be obtained from the undersigned and should be forwarded, together with copies of not more than three recent testimonials, not later than 25th February.

T. PEIRSON, Medical Officer of Health.

Town Hall, Stonehouse, Plymouth, 5th February, 1938.

Swansea General and Eye Hospital.
(336 Beds.)

Applications are invited for the appointment of whole-time ASSISTANT PATHOLOGIST (Male or Female), non-resident. Salary £500, rising to £600, per annum.

Candidates must be graduates in medicine of a recognised British University or members of a College of Physicians of the British Isles.

Duties to commence 4th April, 1938.

Applications, stating age, nationality, qualifications, and experience, together with copies of three recent testimonials, to be forwarded to the undersigned on or before 28th February.

O. C. HOWELLS, Secretary-Superintendent.

Chesterfield and North Derbyshire
ROYAL HOSPITAL.
(220 Surgical and Medical Beds.)

CASUALTY OFFICER AND FRACTURE HOUSE SURGEON.

Applications are invited from fully qualified Men for the above post, to commence 1st March, 1938.

The appointment is for six months. Salary at the rate of £200 per annum, with board, apartments, and laundry.

The duties include the post of House Surgeon to the Director of the Fracture Clinic, under whose care the whole of the fractures, both in- and out-patients, are treated and deputy to the Resident Surgical Officer.

Candidates for this post should have had special fracture experience.

Applications, stating age, together with copies of three recent testimonials, should be sent to the undersigned as early as possible. M. H. BOONE, Superintendent and Secretary.

8th February, 1938.

The Prince of Wales's Hospital,
Greenbank-road, PLYMOUTH.
(Formerly South Devon and East Cornwall Hospital.)
(264 Beds.)

Applications are invited for the post of RESIDENT ANÆSTHETIST and HOUSE SURGEON to the Special Departments.

Salary £120 per annum, with board, residence, and laundry.

Appointment is tenable for six months and is subject to renewal. Duties to commence 10th March.

The Hospital is officially recognised for the surgical practice required before admission to the Final Fellowship Examination of the Royal College of Surgeons of England.

Applicants must be registered under the Medical Acts. Applications, stating age and qualifications, with copies of three recent testimonials, to reach the undersigned not later than 25th February.

7th February, 1938. ARTHUR R. CASH, Secretary.

Ancoats Hospital, Manchester, 4.

CASUALTY OFFICER (Lady or Gentleman), twelve months' appointment. Applicants who have passed the Primary Fellowship Examination of one of the Royal Colleges of Surgeons will be preferred.

Salary £175 per annum, with board, residence, laundry, &c. The successful candidate will do duty for the Resident Surgical Officer at alternate week-ends and other scheduled times.

Applications, stating age, qualifications, experience, and full particulars to be forwarded to the undersigned on or before 23rd February, together with copies of three recent testimonials.

By order of the Board,
HERBERT J. DAFFORNE, General Supt. and Secretary.

Cumberland Infirmary, Carlisle.

(151 Beds.)

Applications are invited from men only for the following posts:—

HOUSE PHYSICIAN,
TWO HOUSE SURGEONS,
HOUSE SURGEON to SPECIAL DEPARTMENTS
(EYE, EAR, NOSE, AND THROAT)

Appointments are for six months from the 1st April, 1938, and holders will be eligible for a further term. Salary in each case at the rate of £160 per annum, with board, residence, and laundry

The posts of HOUSE SURGEON are recognised by the Royal College of Surgeons of England under the regulations for the Final Fellowship Examination.

Applications on forms obtainable from the undersigned, together with copies of not more than four testimonials, to be received not later than 28th February.

J. S. RIPPIER, Secretary-Superintendent.

7th February, 1938.

Kelling Sanatorium, Holt, Norfolk.

SECOND ASSISTANT RESIDENT MEDICAL OFFICER (Male), unmarried, required at above Sanatorium to take up duties on 1st April next. First appointment twelve months (renewable), with three months' notice on either side. Salary £350, with apartments, board, and laundry.

Candidates must be duly registered Medical Practitioners. Applications, in candidate's own handwriting, stating age and qualifications (with one copy of three recent testimonials), to be sent to the Medical Superintendent, Kelling Sanatorium, Holt, Norfolk, not later than March 5th.

County Borough of Huddersfield.

ASSISTANT SCHOOL MEDICAL OFFICER.

Applications are invited for the above post, for which a good knowledge of diseases of children and experience in bacteriology are essential.

Salary according to scale—£500 per annum increasing to £700. The commencing salary will be based on the candidate's previous experience.

The post is designated under the Superannuation Act, 1922, and the appointment, therefore, is subject to a satisfactory medical examination.

Applications, stating age, and giving full particulars regarding training, qualifications and appointments held since qualification, should be forwarded to the Medical Officer of Health, along with copies of two recent testimonials, so as to reach him not later than Friday, the 25th February.

Joint Committee of the County Councils

OF DURHAM AND NORTHUMBERLAND AND THE COUNTY BOROUGH COUNCILS OF GATESHEAD AND NEWCASTLE-UPON-TYNE.

HOUSE SURGEON AND JUNIOR CLINICAL ASSISTANT
(Male, non-resident.)

Applications are invited from duly qualified Medical Practitioners for the post of House Surgeon and Junior Clinical Assistant to the Joint Committee's Venereal Diseases Clinic and associated beds in the Newcastle General Hospital. Duties include assistance in the male and female out-patients' departments and in the in-patients' departments and commence 1st April, 1938. Appointment is tenable for one year. Salary £250 per annum plus an allowance of £100 per annum in lieu of residential emoluments. (Lunch and tea will be provided when on duty.)

Applications, stating age, nationality, qualifications, special experience in Venereal Disease work (if any) should be forwarded to Dr. A. E. W. MCLACHLAN, Clinical Medical Officer, Joint Committee's Clinic, Newcastle General Hospital, Westgate-road, Newcastle-upon-Tyne, 4, on or before 26th February, 1938.

Royal Eye Hospital, Pevensey-road,

EASTBOURNE.

NON-RESIDENT HOUSE SURGEON required to commence duty forthwith. Salary £100 per annum and allowance in lieu of board-residence £175 per annum.

Applications, stating age, qualifications, and Ophthalmic experience, together with recent testimonials, should reach the undersigned as soon as possible.

Before engagement candidates have to be interviewed by appointment by the Hon. Surgeon, from whom further particulars could be obtained in person.

H. BYGRAVE, Hon. Secretary.

Glasgow Corporation Mental Hospitals.

JUNIOR ASSISTANT MEDICAL OFFICER (Male) wanted for the HAWKHEAD MENTAL HOSPITAL. Previous experience unnecessary, but preference will be given to one who has engaged in pathological work or has been house physician; ample opportunity afforded for research. Salary to commence at £300 per annum, with board, lodging, and laundry.

Full particulars on application to the Medical Superintendent, Hawkhead Mental Hospital, Crookston-road, Glasgow, S.W.2.

Cannock Urban District Council.

APPOINTMENT OF ASSISTANT MEDICAL OFFICER OF HEALTH AND ASSISTANT SCHOOL MEDICAL OFFICER.

The above Council invites applications from registered Medical Practitioners, of under thirty-five years of age, for the above-named post. The salary will be at the rate of £550 per annum, rising, subject to satisfactory service, by annual increments of £25 to £700 per annum, plus a travelling allowance of £30 per annum. Applicants must have had at least three years' experience in the practice of their own profession and special experience of practical midwifery, ante-natal, and maternity and child welfare work, and hold a diploma in Public Health.

The person appointed will be required to devote the whole of his or her time to the duties, which will be performed under the direction of the Medical Officer of Health, and will consist chiefly of School Medical and Maternity and Child Welfare work, together with such other duties relating to Public Health as may be required.

The appointment is subject to the approval of the Board of Education and will be determinable by one month's notice on either side.

The Council has, subject to the approval of the Ministry of Health, decided to adopt the Local Government and Other Officers' Superannuation Act, 1922, as from the 1st April, 1938, and the successful candidate will be required satisfactorily to pass a medical examination.

Sealed applications, on forms to be obtained from the undersigned (upon receipt of a stamped addressed foolscap envelope), accompanied by copies of three recent testimonials and endorsed "Assistant Medical Officer of Health" must be delivered to the undersigned not later than Wednesday, the 23rd February.

Canvassing, directly or indirectly, will be deemed a disqualification. WM. C. SPEEDY, Clerk of the Council.

Council House, The Green, Cannock, February, 1938.

City of Birmingham.

SELLY OAK HOSPITAL. (520 Beds.)

JUNIOR MEDICAL OFFICER (Male).

Applications are invited from fully-equipped Medical Practitioners for the whole-time appointment of Junior Medical Officer (Male) at the Selly Oak Hospital, Birmingham. The appointment will be for a period of six months in the first instance, but may be extended at the end of that time for a further period of not exceeding six months.

Salary at the rate of £200 per annum, and full residential emoluments.

Further particulars may be obtained from the Medical Superintendent at Selly Oak Hospital, to whom applications stating age, experience, and qualifications, with copies of recent testimonials, should be forwarded not later than Wednesday, 23rd February, 1938.

F. H. C. WILTSHIRE, Town Clerk.

The Council House, Birmingham, February, 1938.

Great Yarmouth General Hospital.

(72 Beds.)

Applications are invited for the post of HOUSE SURGEON (one of two appointments). Duties to commence 15th March.

Applicants must be male and unmarried.

Salary at the rate of £140 per annum, with board, residence, and laundry.

Applications, stating age and qualifications, together with copies of three recent testimonials, to be forwarded to the undersigned. FREDK. L. GATFIELD.

Bath and Wessex Children's

ORTHOPÆDIC HOSPITAL, COMBE PARK, BATH.

HOUSE SURGEON required to commence duty 1st April, 1938.

The appointment wil be for six months, with salary at the rate of £120 per annum, together with quarters, board, and laundry.

Orthopædic experience an advantage, together with experience in administering anæsthetics.

Applications, with copies of three recent testimonials, should be forwarded by 7th March to the undersigned.

HAROLD J. FRICKER, Secretary.

9th February, 1938.

Birmingham Maternity Hospital.

Applications are invited for the post of RESIDENT MEDICAL OFFICER AND REGISTRAR, to commence duties on 1st April, 1938. Applicants must have had previous experience in Obstetrics and Gynæcology. Salary £200 per annum.

Applications and copies of testimonials to be sent not later than 28th February to Mr. HUGH C. ASTON, 45, Newhall-street Birmingham, 3.

Preston and County of Lancaster
ROYAL INFIRMARY.

Applications are invited for the post of RESIDENT HOUSE SURGEON to the MATERNITY HOSPITAL (43 Beds), vacant 1st April, 1938. Duties under Consultant Obstetrician, include antenatal and postnatal clinics. Six months' appointment.

Salary at the rate of £150 per annum, with board, residence, and laundry.

Applications, stating age, qualifications, and experience, together with copies of recent testimonials, to be forwarded to the undersigned as soon as possible.

JOHN GIBSON, Superintendent and Secretary.

Preston and County of Lancaster
ROYAL INFIRMARY.

Applications are invited from unmarried gentlemen, doubly qualified and registered, for the post of HOUSE SURGEON, with duties under Consulting Surgeon in Male, Female, and Children's Surgical Wards, vacant 1st April, 1938. Six months' appointment.

This post is recognised by the Royal College of Surgeons as surgical practice in connexion with the Final Examination for the Fellowship.

Salary at the rate of £150 per annum, with board, residence, and laundry.

Total resident staff—eight.

Applications, stating age, qualifications, and experience, together with copies of recent testimonials, to be forwarded to the undersigned as soon as possible.

JOHN GIBSON, Superintendent and Secretary.

Preston Hall Sanatorium,
near MAIDSTONE, KENT. (300 Beds.)

Applications are invited for the post of ASSISTANT MEDICAL OFFICER (Male).

Salary at the rate of £250 per annum, with board, residence, and laundry.

Candidates, who must be unmarried, are requested to forward their applications as soon as possible to the Medical Director, stating age, qualifications, &c., together with copies of not more than three testimonials.

Royal Surrey County Hospital,
GUILDFORD. (216 Beds.)

Applications are invited for the posts of—

(*a*) One HONORARY SURGEON AND GYNÆCOLOGIST.

(*b*) One HONORARY SURGEON.

Applicants must hold the degree of Master of Surgery or the Fellowship of one of the Royal Colleges of Surgeons, and they should state whether they are in consultant or general practice.

Duties to commence on 1st April, if possible.

Applications, with copies of not more than three recent testimonials, should reach the Secretary-Superintendent not later than 28th February, 1938.

The Cassel Hospital for Functional
NERVOUS DISORDERS, SWAYLANDS, PENSHURST, KENT.

LOCUM TENENS (Male) required for the above Hospital from May to September inclusive. Previous experience essential. Salary eight guineas per week, with board, lodging, and laundry.

Apply to "The Medical Director" enclosing testimonials, not later than March 1st.

Urban District Council of Cheadle and
GATLEY.

APPOINTMENT OF MEDICAL OFFICER OF HEALTH.

The Urban District Council of Cheadle and Gatley invite applications for the appointment of a Medical Officer of Health.

The Officer appointed will also act under the Cheshire Education Committee as Assistant School Medical Officer for the Urban District of Cheadle and Gatley and a surrounding area.

Every candidate must not be less than twenty-eight years and not exceeding forty-five years of age, and must be a duly qualified Medical Practitioner and registered in the Medical Register as the holder of a Diploma in Sanitary Science, Public Health, or State Medicine.

The salary will be at the rate of £800 per annum, with a travelling allowance.

Office accommodation will be provided by the Council.

The person appointed will be required to devote the whole of his time to the performance of the duties of his office, and he will not be permitted to engage in private practice as a Medical Practitioner. He will be required to enter into an Agreement, and also to reside within the Urban District.

The appointment will be made subject to the approval of the Minister of Health, the provisions of Section 110 of the Local Government Act, 1933, and the Sanitary Officers (Outside London) Regulations, 1935.

Full particulars of the appointment and forms of application can be obtained from the undersigned.

Application forms, duly completed and endorsed "Medical Officer of Health, &c.," together with copies of three recent testimonials, must be delivered to the undersigned not later than the first post on Monday, the 7th day of March, 1938.

W. TIMPERLEY, Clerk to the Council.

Council Offices, 19, High-street, Cheadle, Cheshire.
10th February, 1938.

City of Birmingham.
COLESHILL HALL.

DEPUTY MEDICAL SUPERINTENDENT.

Coleshill Hall, a colony for Mental Defectives of all ages and both sexes, consists of two divisions, five miles apart, situated at Coleshill and Marston Green respectively, each about ten miles from Birmingham.

Applications are invited for the whole-time appointment of Deputy Medical Superintendent for the Colony, aged forty to forty-five, with experience in institutional administration. Salary according to experience (Scale £500–£700 per annum), subject to satisfactory service, plus emoluments consisting of unfurnished house, fuel, light, and laundry valued for superannuation purposes at £200 per annum. An additional £50 per annum will be granted if holding a recognised qualification in psychological medicine. All fees, allowances, and remunerations received other than the foregoing must be repaid to the City Council.

The candidate appointed will be required to pass satisfactorily a medical examination and to be subject to the provisions of the Asylums Officers' Superannuation Act, 1909, as modified by the Asylums and Certified Institutions (Officers' Pensions) Act, 1918. The appointment will be subject to one month's notice on either side.

Application forms may be obtained from the Medical Superintendent, Coleshill Hall, Coleshill, near Birmingham, and must be returned to him not later than Monday, the 7th March, 1938.

F. H. C. WILTSHIRE, Town Clerk.

Council House, Birmingham, 1.

City of Manchester.
BOOTH HALL HOSPITAL FOR CHILDREN.
(760 Beds.)

The Public Health Committee invites applications from registered Medical Men for the post of RESIDENT ASSISTANT MEDICAL OFFICER at the above-named Hospital.

The salary for the appointment is £200 per annum, with board, residence, and laundry in addition, subject to the Manchester Corporation conditions of service.

The appointment will be made in the first instance for a period of six months, renewable for a further six months, but not renewable thereafter.

Full information and forms of application may be obtained from the Medical Officer of Health, Sunlight House, Quay-street, Manchester, 3, and applications for the post must be received by him not later than March 5th, 1938.

F. E. WARBRECK HOWELL, Town Clerk.

Town Hall, Manchester, 2, 2nd February, 1938.

Royal Devon and Exeter Hospital,
Exeter. (280 Beds.)

RESIDENT SURGICAL OFFICER.
HOUSE SURGEON.
HOUSE SURGEON to the Ear, Nose, and Throat Department.

The above resident posts (Male only) will become vacant on April 1st, 1938.

The appointment of Resident Surgical Officer (salary £250) is for one year; the other appointments (salary £150) for six months, with eligibility for re-election.

Candidates must possess registered qualifications.

Applications, stating age, qualifications, and copies of three recent testimonials, should be sent to the undersigned on or before Tuesday, 1st March, 1938.

S. S. COLE, Secretary and Manager.

City of Bradford.
MUNICIPAL GENERAL HOSPITAL, ST. LUKE'S.

HOUSE PHYSICIANS and HOUSE SURGEONS required. Salary in each case £150 per annum plus board and lodgings.

These appointments are for six months, renewable for a further period of six months.

Application forms may be obtained from the Medical Officer of Health, Town Hall, Bradford, and should be returned to the undersigned not later than the 4th March, 1938.

Town Hall, Bradford. N. L. FLEMING, Town Clerk.

Leigh Infirmary, Lancashire.

Wanted, JUNIOR HOUSE SURGEON, immediately. Salary £150 per annum. The appointment is for six months with eligibility for re-election. Must be good Anæsthetist. Exceptional opportunities for Surgery.

Applications to be addressed to Mr. J. A. SMITH, Secretary, 5, Silk-street, Leigh, Lancashire.

Royal Isle of Wight County Hospital,
RYDE.

JUNIOR HOUSE SURGEON (Woman) wanted for April 1st., unmarried. Salary at the rate of £120 yearly, with board, residence, and laundry.

Apply, stating age and nationality, with copies of testimonials, to the Secretary, before Tuesday, March 8th.

A. S. GORDON, Secretary.

Alexandra Maternity Home,
1–3, St. Michael's-terrace, DEVONPORT.

Services of an HON. CONSULTANT required. Small honorarium. Letters to Secretary.

Leicester Royal Infirmary.
(500 Beds.)

VACANCIES FOR APRIL 1ST, 1938.

HOUSE SURGEON.

Salary £125 per annum. Applicants must have held a resident Hospital post or had similar experience of Hospital work.

HOUSE PHYSICIAN.

Salary £125 per annum. Applicants must have held a resident Hospital post or had similar experience of Hospital work.

JUNIOR CASUALTY OFFICER.

Junior Casualty Officer. Salary £100 per annum.

Applications, giving full details, to be forwarded to the SECRETARY not later than 28th February, 1938, together with copies of three testimonials.

Appointments will be made on the 9th March, 1938.

11th February, 1938.

City of Aberdeen.

REGIONAL MEDICAL OFFICER FOR MATERNITY AND CHILD WELFARE.

The Town Council of Aberdeen are prepared to receive applications for the appointment of Regional Medical Officer for Maternity and Child Welfare for the City of Aberdeen and for the Counties of Aberdeen and Kincardine.

Applicants must be Registered Medical Practitioners and must hold a Diploma in Public Health or equivalent qualification. They must also possess qualifications enabling them to act as Supervisor of Midwives in terms of the Maternity Services (Scotland) Act, 1937.

The successful applicant will act as Assistant to the present Medical Officer for Maternity and Child Welfare until the retiral of that Official on 30th June next. On appointment, the salary will be £850 per annum and will be increased to £900 per annum on the retiral referred to, thereafter rising to £1000 per annum by annual increments of £50, with placing on the scale according to qualifications and experience. The office is an established post under the Local Government and Other Officers' Superannuation Act, 1922, and the successful candidate will be required to pass a medical examination. Applications will be entertained from candidates up to the age of forty-eight years.

Applications, stating age, qualifications, and experience, together with one copy of three recent testimonials, should be lodged with the undersigned not later than 14th March, 1938, from whom also can be obtained details regarding duties, terms of service, &c.

G. S. FRASER, Town Clerk.

Town House, Aberdeen, 14th February, 1938.

The Royal Liverpool Children's
HOSPITAL.

There will be a vacancy on April 1st next for One RESIDENT MEDICAL OFFICER (Woman) at the HESWALL BRANCH of the Institution (240 Beds). The appointment will be for a period of six months. Salary at the rate of £120 per annum.

Applications, with copies of recent testimonials, to be sent to the Secretary, Royal Liverpool Children's Hospital, Myrtle-street, Liverpool, 7, on or before Tuesday, 1st March, 1938.

Royal Infirmary, Bradford.

HOUSE PHYSICIAN (Male) wanted for 1st April. Seven months' appointment.

Candidates must be single and legally qualified. Salary £150 per annum, with board, residence, and washing.

There are 345 beds and 10 Resident Officers.

Applications, stating age, qualifications, and previous experience, with copies of recent testimonials, should be sent to the undersigned at once.

H. TRUSSON, House Governor and Secretary.

11th February, 1938.

The Children's Hospital.
KING EDWARD VII MEMORIAL
BIRMINGHAM, 16.

RESIDENT MEDICAL OFFICER.

Applications are invited for the above post. Candidates must be qualified and registered and have held a responsible Resident appointment at a teaching hospital. The salary is at the rate of £175 per annum, with board, residence, and laundry. The appointment is tenable for one year, and the Officer is eligible for re-election for a second year.

Candidates should forward their applications, with certificate of registration, and any credentials which they may desire to offer, to the undersigned, on or before 5th March, 1938.

Owing to the resignation of the present holder of the office, the duties will commence forthwith.

HAROLD F. SHRIMPTON, House Governor.

14th February, 1938.

North Staffordshire Royal Infirmary,
STOKE-ON-TRENT.
(390 Beds.)

HOUSE PHYSICIAN (SECOND).

The Committee invite applications for the post of House Physician (Second), who will have charge of the beds allocated to the Honorary Assistant Physicians, and he will attend them in the Out-patient Department which is very extensive.

Salary at the rate of £150 per annum, with board, residence, and laundry.

The appointment will be made for six months, renewable.

Applications, stating age and experience, with copies of two recent testimonials, to be sent to the undersigned immediately.

By Order,
W. STEVENSON, Secretary and House Governor.

14th February, 1938.

North Staffordshire Royal Infirmary,
STOKE-ON-TRENT.
(390 Beds.)

HOUSE SURGEON (CASUALTY).

The Committee invite applications for the above post—half duties in Casualty. Over 6000 casualties per annum. Salary at the rate of £150 per annum, with board, residence, and laundry.

The appointment will be made for six months, renewable.

Eligible for the other resident posts as vacancies arise.

Applications, stating age and experience, with copies of two recent testimonials, to be sent to the undersigned immediately.

By order,
W. STEVENSON, Secretary and House Governor.

14th February, 1938.

Bristol Eye Hospital.
80 Beds. (12 Private Patients.)
1937: 1017 In-patients. 17,794 Out-patients.

Applications are invited for the post of JUNIOR HOUSE SURGEON. Salary £100 per annum. Senior post available after six months. Vacant 1st April, 1938.

Suitable experience for D.O.M.S. Applications, stating age and qualifications, &c., with three recent testimonials, to reach the undersigned by March 11th.

D. M. BABER, Secretary and House Governor.

Seaton Valley Urban District Council.
WHITLEY AND MONKSEATON URBAN DISTRICT COUNCIL.
LONGBENTON URBAN DISTRICT COUNCIL.

APPOINTMENT OF WHOLE-TIME MEDICAL OFFICER OF HEALTH.

Applications are invited for the appointment of a Whole-time Medical Officer of Health for the combined Area consisting of the above-mentioned Urban Areas, at a commencing salary of £900 per annum, plus car or travelling allowances in the first instance amounting to £100 per annum. The Medical Officer appointed will be required to furnish to the Joint Committee a record of his mileage and out-of-pocket expenses at the end of each twelve months, when the question of the expenses to be paid during the ensuing year will be considered.

The successful applicant will also be required to serve as Medical Superintendent of the Earsdon Joint Isolation Hospital Board, which Board receives and treats the whole of the infectious diseases occurring within the above area, together with the Boroughs of Blyth and Wallsend. The additional salary to be paid in connexion with the Hospital appointment will be £200 per annum.

The total population of the three combined areas is 76,490; the population of the Hospital District is 153,568.

Applicants must be registered in the Medical Register as a holder of a diploma in Sanitary Science, Public Health, or State Medicine, in addition to the statutory qualifications, and the successful applicant shall be restricted by the terms of his employment from engaging in private practice as a Medical Practitioner.

The successful applicant will be required to submit to the Ministry of Health and the County Council the appropriate information required under the Local Government Act, 1933, and the Sanitary Officers (outside London) Regulations, 1935, report to and attend the appropriate Committees of the above authorities, perform the duties imposed on a Medical Officer of Health by statute and by any orders, regulations, or directions from time to time made or given by the Minister and any bye-laws or instructions of the Local Authorities applicable to his office.

The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and to the passing of a medical examination.

The appointment will commence on the 1st day of August, 1938, and may be determined by the Medical Officer of Health appointed by three months' notice.

The successful applicant will be required to reside in the area above mentioned.

Applications, stating age and qualifications, together with copies of not more than three recent testimonials, to be sent in to the undersigned by first post on Saturday, the 19th day of March, 1938.

Dated this 11th day of February, 1938.

ARTHUR S. RUDDOCK, Clerk to the Joint Committee.

Council Offices, Whitley Bay.

Lancashire County Council.

BIDDULPH GRANGE ORTHOPÆDIC HOSPITAL.

Applications are invited from duly qualified and registered Medical Practitioners for the following posts at the above Hospital, which contains 88 beds:—

SENIOR HOUSE SURGEON. (Duties to commence 1st May.)

Salary £250 per annum, together with board, residence, and laundry. Candidates must have had experience in a General Hospital. Preference will be given to candidates who have had orthopædic experience.

JUNIOR HOUSE SURGEON. (Duties to commence 1st April.)

Salary £200 per annum, together with board, residence, and laundry. Preference will be given to candidates who have held resident hospital appointments, and who are competent anæsthetists.

Both appointments will be for a period of six months in the first instance, and for a further six months at the option of the Council, but will not be renewable after that time.

Applications, with copies of two recent testimonials, should be sent, not later than the 3rd March, 1938, to Dr. F. Hall, School Medical and Child Welfare Department, County Offices, Preston.

GEORGE ETHERTON, Clerk of the County Council.

County Offices, Preston, February, 1938.

York County Hospital.

(204 Beds.)

The post of HOUSE PHYSICIAN will become vacant on 31st March, 1938. Salary £150 per annum, with board, residence, and laundry.

Applications, stating age and previous experience, together with copies of not more than three recent testimonials, to be sent to the undersigned not later than 9 A.M. on Monday, 28th February, 1938.

J. R. MACKRILL, Secretary.

Surrey County Council.

WARREN ROAD HOSPITAL, GUILDFORD. (266 Beds.)

RESIDENT ASSISTANT MEDICAL OFFICER.

Applications are invited from registered Medical Practitioners for the appointment of Resident Assistant Medical Officer at the Warren-road Hospital, Guildford.

The Medical Officer appointed should preferably have had previous experience as House Physician or House Surgeon.

The appointment is for a period of six months, renewable for a further period of six months, and the salary is at the rate of £250 per annum, together with full residential emoluments valued at £125 per annum, making an aggregate of £375 per annum.

Applications, stating age, qualifications, and experience and enclosing copies of not more than three recent testimonials, should be addressed to the County Medical Officer, County Hall, Kingston-upon-Thames, so as to be received not later than 25th February, 1938.

Canvassing will disqualify.

DUDLEY AUKLAND, Clerk of the Council.

County Hall, Kingston-upon-Thames.
15th February, 1938.

Surrey County Council.

PUBLIC HEALTH DEPARTMENT.

REDHILL COUNTY HOSPITAL. (300 Beds.)

RESIDENT ASSISTANT MEDICAL OFFICER.

Applications are invited from registered Medical Practitioners for the appointment of Resident Assistant Medical Officer at the Redhill County Hospital, Redhill.

The Medical Officer appointed should preferably have had previous experience as House Physician or House Surgeon.

The appointment is for a period of six months, renewable for a further period of six months, and the salary is at the rate of £250 per annum, together with full residential emoluments valued at £125 per annum, making an aggregate of £375 per annum.

Applications, stating age, qualifications, and experience, and enclosing copies of not more than three recent testimonials, should be addressed to the Medical Superintendent, Redhill County Hospital, Earlswood-common, Redhill, so as to be received not later than 25th February, 1938.

Canvassing will disqualify.

DUDLEY AUKLAND, Clerk of the Council.

County Hall, Kingston-upon-Thames.
15th February, 1938.

Hertford County Hospital.

(169 Beds.)

Applications are invited for the post of HOUSE SURGEON (Male). (Three Residents.) Salary £200 per annum, with board, residence, and laundry. The appointment is for six months in the first instance.

Applications, with three recent testimonials, should be sent to the undersigned, not later than Tuesday, 1st March, 1938.

PERCY G. BROOKS, Secretary.

Worcester County and City Mental

HOSPITAL, POWICK, Near WORCESTER.

Applications are invited for the post of ASSISTANT MEDICAL OFFICER. Applicants must be Male, single, under thirty-five years of age, and duly qualified in medicine and surgery. Commencing salary £350, rising by annual increments of £25 to a maximum salary of £450 per annum, together with furnished apartments, board, laundry, and attendance. A further £50 per annum will be paid if the selected candidate holds or obtains a Diploma in Psychological Medicine. Experience in Anæsthetics will be a recommendation. The appointment is subject to the provisions of the Asylums Officers' Superannuation Act, 1909.

Applications, stating age, and full particulars of qualifications and experience, accompanied by copies of three recent testimonials, to be forwarded to the Medical Superintendent not later than Saturday, 5th March, 1938.

City of Birmingham.

MATERNITY AND CHILD WELFARE DEPARTMENT.

TEMPORARY MEDICAL OFFICER.

A Temporary Medical Officer is required for a period of six months from April 1st. The work includes attendance at ante-natal and children's clinics.

Applicants should have had considerable experience in work with mothers and children, including resident posts in a maternity hospital and in a children's hospital. The salary offered is £10 per week.

The appointment cannot be terminated within the period named except for health reasons.

Applications endorsed "Temporary Medical Officer for Maternity and Child Welfare" and accompanied by copies of three recent testimonials, to be made on a form obtainable from the Medical Officer of Health, Council House, Birmingham, 3, and returned to him on or before March 5th.

Doncaster Royal Infirmary.

(185 Beds.)

Applications are invited for the post of FRACTURE HOUSE SURGEON, who will be required to carry out his duties under the direction of an Honorary Orthopædic Surgeon. The resident Medical Staff of the Hospital numbers six and this appointment will be considered the senior. Salary paid will be £200 minimum, or according to experience.

Applications, accompanied by copies of three recent testimonials, to be forwarded to the undersigned.

R. LANCASTER, Secretary-Superintendent.

Clapham Maternity Hospital, London,

S.W.4.—Vacancy for WOMAN (POST-GRADUATE) STUDENT. Fee £7 7s. monthly. Good midwifery experience. Ante-natal work. Operative midwifery course.

HOUSE SURGEON wanted shortly.—SECRETARY.

The Royal Army Medical Corps

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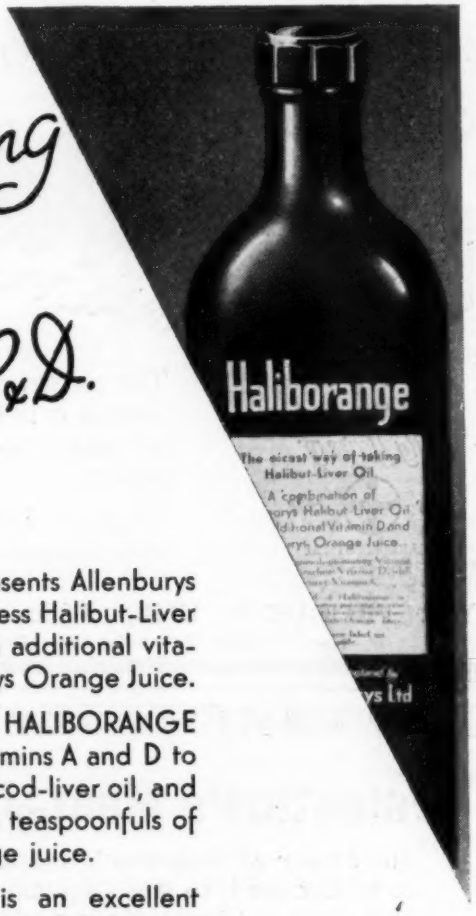

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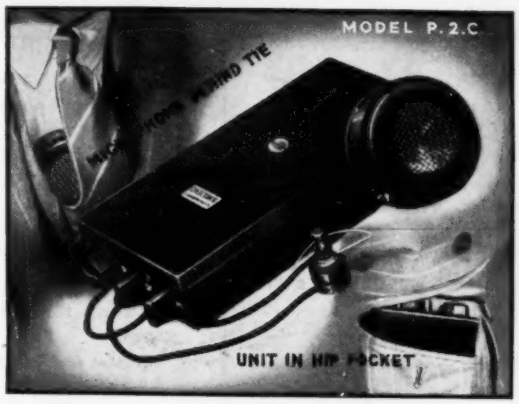

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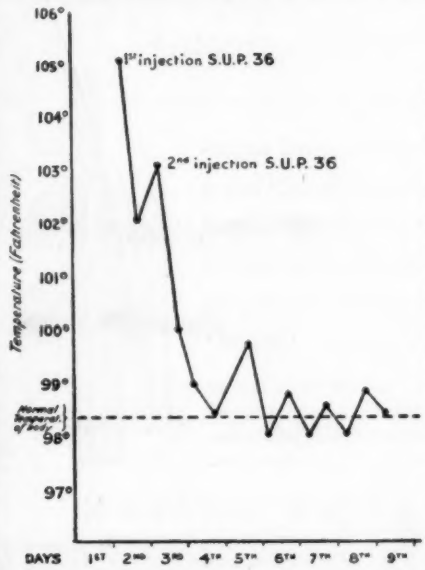

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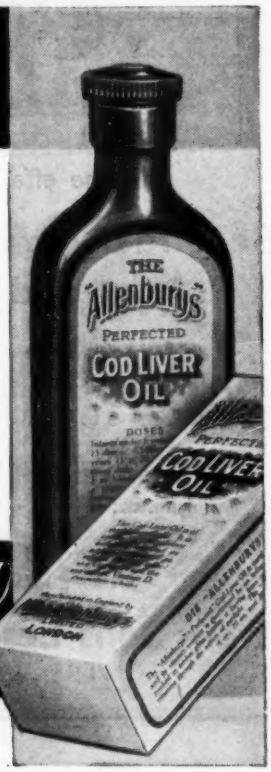

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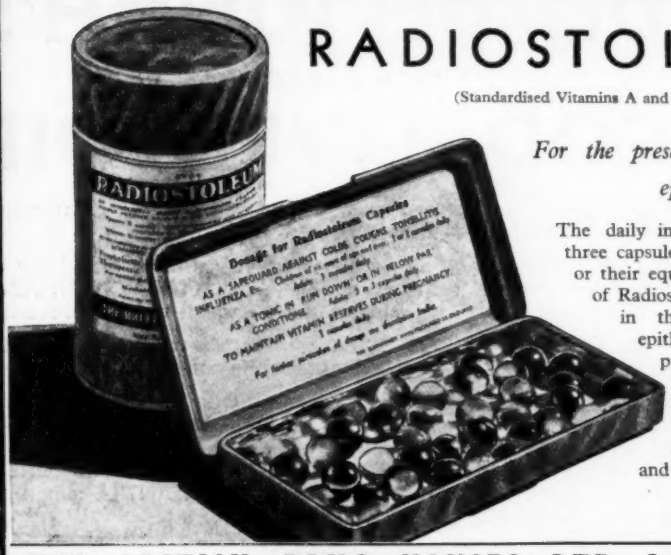

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In 6 oz. and 12 oz. bottles. Dose : Two teaspoonfuls three times a day.

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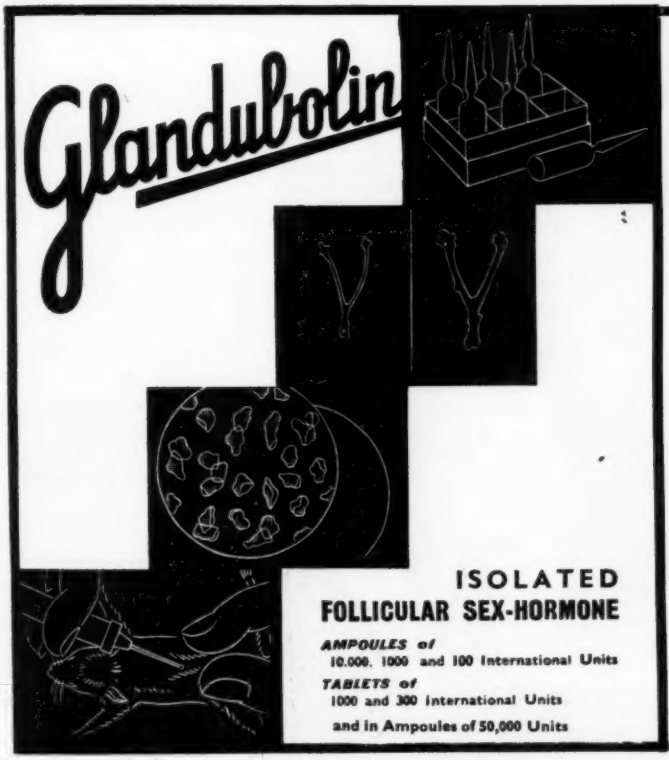

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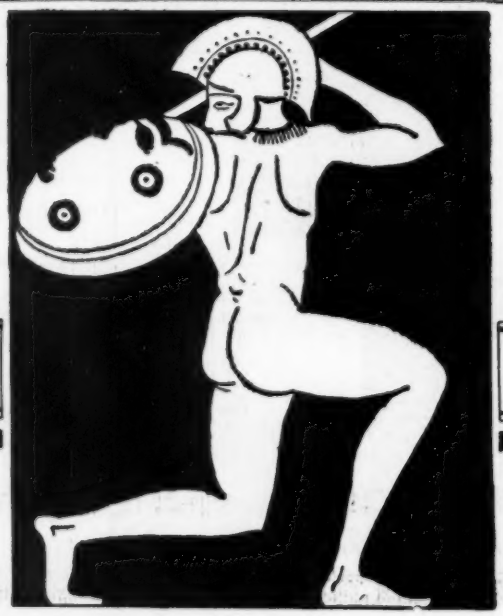

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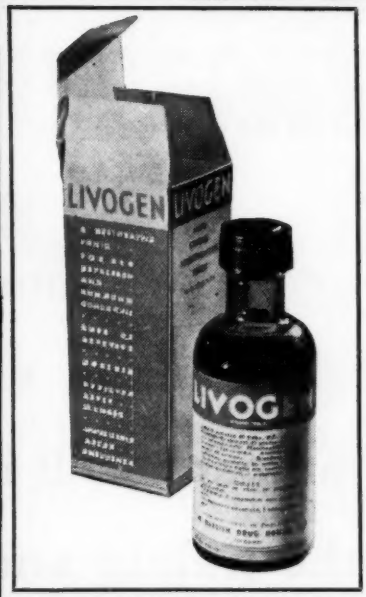

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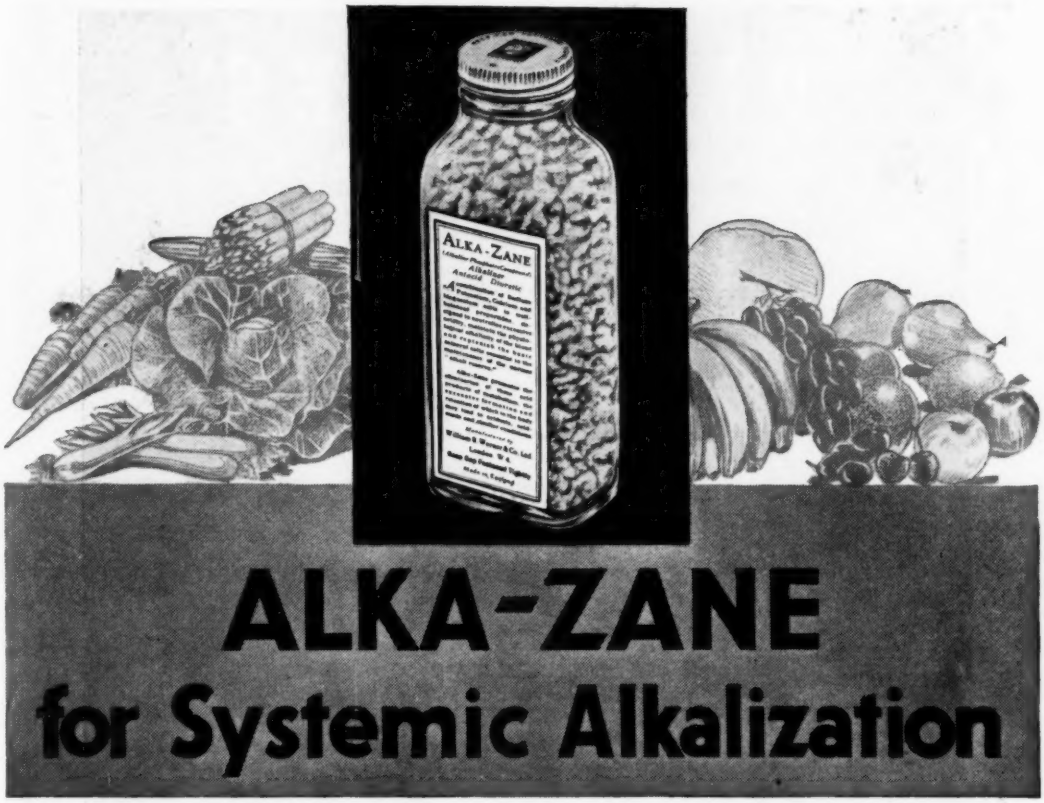

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One heaped teaspoonful, three or four times daily in a glass of water, is an efficient, refreshing neutralizer of excessive local or systemic acidity. After effervescence has subsided milk or fruit juices may be added, if preferred.

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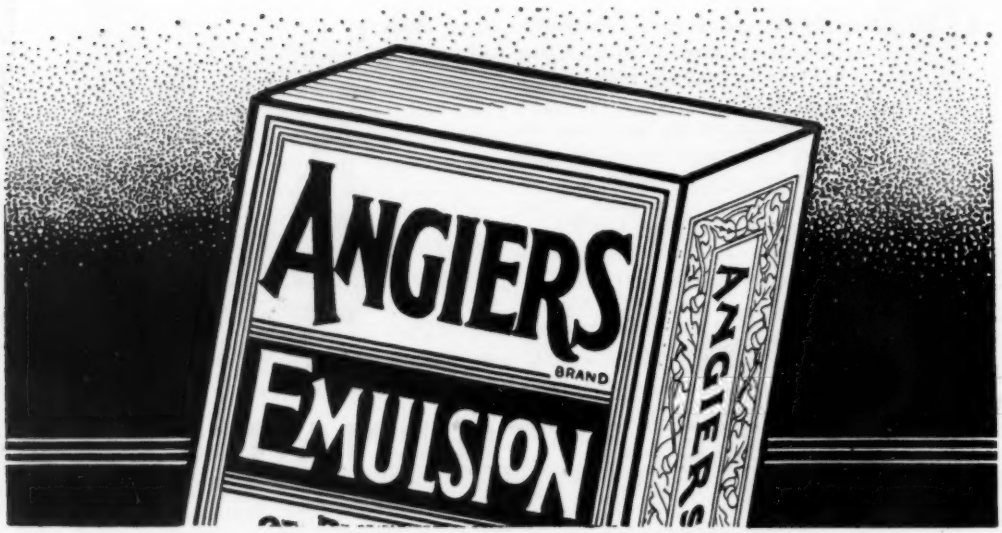

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in the diet of many millions of people"

(B.M.J., 16 Oct., 1937, p. 753)

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It has been demonstrated, both experimentally and clinically, that a shortage of Vitamin B acts as a limiting factor in the maintenance of health and nutrition, and often results in gastro-intestinal disorders, loss of appetite, indigestion, constipation and, if long continued, contributes to neuritis and arthritis.

The logical way to rectify such shortage is to restore to the diet the Vitamin B-containing substance whose removal is responsible for the deficiency.

This substance is available in the form of Bemax.

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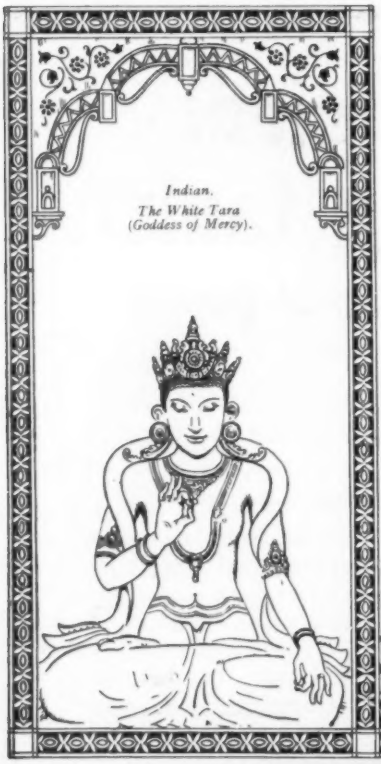

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"NUTRITION IN WASTING DISEASES OF CHILDREN AND ADULTS"
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"THIS condition, which results from imperfect digestive or absorptive power, or which may follow stomatitis, pyloric stenosis, deformity of the tongue or palate, tuberculosis or syphilis, is most frequently associated with improper feeding. Fats in such cases are not well tolerated, but the contrary is true with respect to proteids. . . . The use of 'Sanatogen', in these cases, proved so satisfactory that we have been encouraged to try it in other cases of infantile atrophy, and have had almost equally pleasing results in a number of patients suffering from this condition. It is quite apparent that 'Sanatogen' has considerable power in influencing nutrition. . . ."

"INFANTILE ATROPHY"
(*Practitioner*)

"I HAVE before me the records of forty cases fed with 'Sanatogen'. They show, what was obvious to myself and the nurses when watching the cases, that these patients wasted less during the acute stage, and picked up more rapidly during the convalescent stage, than patients who did not have 'Sanatogen'. This fact, indeed, was soon recognised by the ward sister, without my having in any way drawn her attention to it. . . . I am firmly convinced that it is a most valuable food for the typhoid patient."

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DOSAGE: For children and adults two teaspoonfuls three times daily, or according to circumstances. For infants ½ teaspoonful added to each bottle feed.

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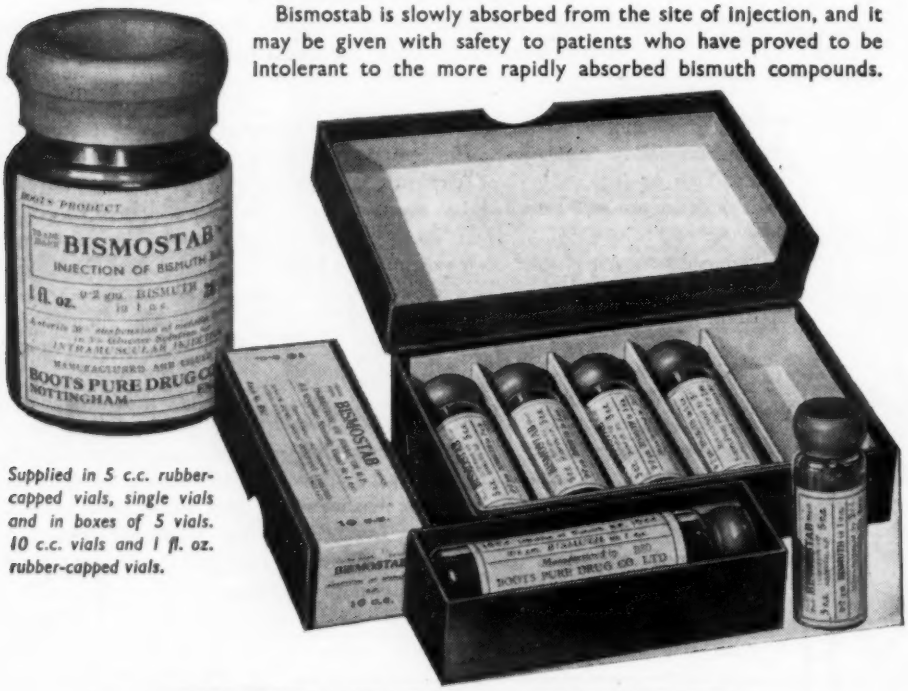

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BISMUTH OXYCHLORIDE SUSPENSION IN 5% GLUCOSE SOLUTION

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Prolonged and world-wide experience of Neo-Hepatex has proved that no other liver product surpasses it in potency.

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Physicians everywhere are now agreed :—

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(*b*) That whilst a system of dosage based upon minimal quantities may be harmful, there is no danger in over-dosage.

Adequate dosage of Neo-Hepatex, though small in volume, ensures rapid progress with eventually the longest possible intervals between the injections necessary for maintenance.

Neo-Hepatex is issued in ampoules :
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LIVERPOOL AND LONDON

for sick as well as normal babies

Mead's Dextri-Maltose, Carbohydrate of Choice

"As to the kind of extra carbohydrate to be added, whether lactose or maltose, I believe dextri-maltose to be better in general in cases of fat indigestion (infantile atrophy)."—*C. H. Dunn: The Hygienic and Medical Treatment of Children, Southworth Co., Troy, New York, 1917, V. 1, p. 418.*

In discussing the treatment of decomposition Feer says: "The period of repair may be shortened by giving suitable additional food; the best, probably, being buttermilk to which carefully regulated proportions of dextrin and maltose preparations or malt soup are added."—*E. Feer: Text-Book of Pediatrics, J. B. Lippincott Co., Phila., 1922, p. 284.*

In the treatment of infantile atrophy Fischer recommends the following: "The carbohydrate should be increased by gradual addition of dextri-maltose.

"Malt soup or dextrimaltose (Mead's) should be added in teaspoonful or more doses to each feeding until the point of carbohydrate tolerance is reached."—*L. Fischer: Diseases of Infancy and Childhood, F. A. Davis Co., Phila., 1925, V. 1, p. 285.*

Concerning the treatment in the case of a premature infant Fischer states: "Dried milk with water was given, which later was changed to whole milk, 14 ounces; water, seven ounces, and dextrimaltose No. 1, one and one-half ounces. Seven feedings of three ounces each every three hours was given. The above feeding was retained. The infant gained eight ounces at the end of the first week."—*L. Fischer: Clinical notes in a series of premature infants, Arch. Pediat. 44:227-231, April, 1927.*

Grulee, in discussing the treatment of decomposition says: "As a rule it is best to start with 2 to 2½ or 3 ounces of albumin milk to the pound weight in 24 hours; the sugar to be added is in the form of a maltose-dextrin mixture. One should never delay too long in adding this."—*C. G. Grulee: Infant Feeding, W. B. Saunders Co., Phila., 1922, p. 265.*

Referring to the hypotrophic infant Herrman writes: "In mild cases, the addition of dextrimaltose instead of cane or milk sugar may be sufficient to obtain a gain in weight."—*C. Herrman: The treatment of nutritional disorders in artificially-fed infants, New York M. J. 114:158-160, August, 1921.*

In discussing artificial feeding in athrepsia Hess states: "The carbohydrates are usually added in a slowly fermentable form, such as the maltose and dextrin compounds, which are usually started by the addition of four grams per kilogram (1/15 ounce per pound) and increased until eight grams or more per kilogram (¼ ounce per pound) of body weight are added."—*J. H. Hess: Feeding and the Nutritional Disorders in Infancy and Childhood, F. A. Davis Co., Phila., 1928, p. 278.*

Concerning the treatment of marasmus Hill says: "When the stools have become smooth and salve-like, carbohydrate, in the form of dextrimaltose, may be gradually added up to the limit of tolerance."—*L. W. Hill: Practical Infant Feeding, W. B. Saunders Co., Phila., 1922, p. 281.*

"A spasmophilic baby on bottle feeding should receive a limited amount of milk—a pint, or at the most 24 ounces in the 24 hours—to which cereal gruel and some form of sugar is added, preferably one of the malt dextrin preparations; also the early addition of other foods than milk to the baby's diet."—*M. Jampolis: Infantile spasmophilia, Interstate M. J. 25:652, Sept., 1918; abst. Arch. Pediat. 35:691, Nov. 1918.*

With reference to the treatment of diarrhea Lust writes: "After several days, 2% to 3% of a maltose-dextrin preparation may be added (Dextri-Maltose). This is preferable to the easily fermentable lactose or cane sugar."—*F. Lust: The Treatment of Children's Diseases, J. B. Lippincott Co., Phila., 1930, p. 145.*

"The treatment of artificially fed children in the first of these groups consists in putting them on a low fat dietary, and giving them carbohydrate in the form of one of the less fermentable sugars—e.g., dextrimaltose."—*L. G. Parsons: Wasting disorders of early infancy, Lancet, 1:687-694, April 5, 1924.*

Pearson and Wyllie in discussing the treatment of milder cases of inanition say: "Regulation of this disturbed organismal balance is obtained by the addition of carbohydrates, while fat and casein are reduced. For this purpose dextrimaltose and flour are better than the ordinary sugars, since they are more slowly absorbed and have greater efficacy in their powers of controlling the flora in the large intestine."—*W. J. Pearson, and W. G. Wyllie: Recent Advances in Diseases of Children, P. Blakiston's Son & Co., Phila., 1930, p. 116.*

Regarding the treatment of the marantic infant Raue states: "After the intolerance to sugar has been overcome a carbohydrate, preferably Dextri-maltose, may be added."—*C. S. Raue: Diseases of Children, Boericke & Tafel, Phila., 1922, p. 427.*

In discussing the treatment of atrophy Thursfield and Paterson, state: "If the baby continues to improve, the next step in the treatment is to add to the milk one of the less fermentable carbohydrates, such as dextrimaltose . . . —*H. Thursfield and D. Paterson: Diseases of Children, William Wood & Co., 1929, p. 105.*

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"Dextri-maltose has been substituted for lactose not infrequently, when the tolerance for the latter continues low."—*L. H. West: Low fat, high starch evaporated milk feeding for the marasmic baby, Arch. Pediat. 48:189-193, March, 1931.*

"Malt sugar is indicated when others fail to produce a sufficient gain, or when malassimilation of fat is evident."—*O. H. Wilson: The role of carbohydrates in infant feeding, Southern M. J. 11:177, March, 1918; abst. Arch. Pediat. 35:447, July, 1918.*

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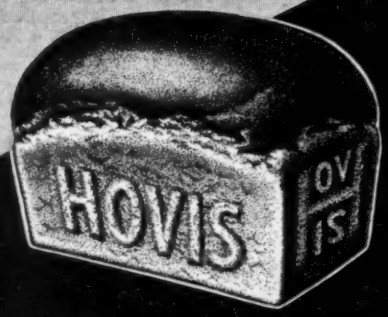

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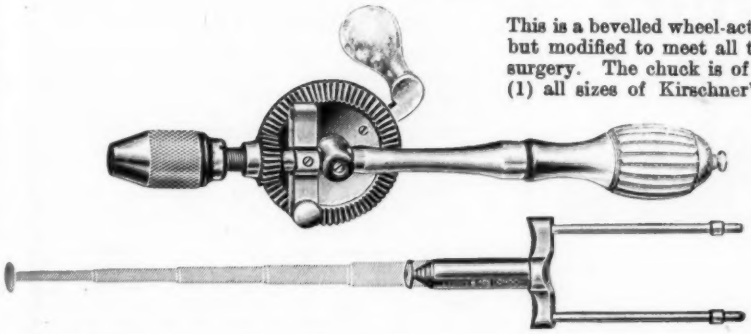

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A Private Hospital for the Treatment and Care of Mental and Nervous Illnesses in both Sexes.

A modern country house, 12 miles from Marble Arch, in attractive and secluded surroundings. Fees from 10 guineas per week inclusive. Cases under Certificate, Voluntary and Temporary Patients received for treatment.

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A PRIVATE HOME for the treatment of gentlemen suffering from Mental and Nervous illness, including the allied Disorders of Alcoholism and the Drug Habit. All types of early Mental and Nervous Cases are received without Certificates as Voluntary Boarders. Bracing hill country. See "Medical Directory," p. 2328.—Apply to Medical Superintendent. 'Phone 10 P.O., Church Stretton.

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Ladies suffering from all forms of MENTAL ILLNESS are received for treatment, on modern lines, as Voluntary, Temporary or Certified Private Patients at the Hill End Hospital. Convalescent or mild cases can be treated in a delightful country mansion, with extensive grounds, known as

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FOR MENTAL DISORDERS, NORTHAMPTON

FOR THE UPPER AND MIDDLE CLASSES ONLY.

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WANTAGE HOUSE

This is a Reception Hospital, in detached grounds with a separate entrance, to which patients can be admitted. It is equipped with all the apparatus for the most modern treatment of Mental and Nervous Disorders. It contains special departments for hydrotherapy by various methods, including Turkish and Russian Baths, the prolonged immersion bath, Vichy Douche, Scotch Douche, Electrical Baths, Plombières treatment, &c. There is an operating Theatre, a Dental Surgery, and X-ray Room, an Ultra-violet Apparatus, and a Department for Diathermy and High Frequency treatment. It also contains Laboratories for bio-chemical, bacteriological, and pathological research.

MOULTON PARK

Two miles from the Main Hospital there are several branch establishments and villas situated in a park and farm of 650 acres. Milk, meat, fruit, and vegetables are supplied to the Hospital from the farm, gardens, and orchards of Moulton Park. Occupation therapy is a feature of this branch, and patients are given every facility for occupying themselves in farming, gardening, and fruit growing.

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The Seaside house of St. Andrew's Hospital is beautifully situated in a Park of 330 acres, at Llanfairfechan, amidst the finest scenery in North Wales. On the North West side of the Estate a mile of sea coast forms the boundary. Patients may visit this branch for a short seaside change or for longer periods. The Hospital has its own private bathing house on the seashore. There is trout fishing in the park.

At all Branches of the Hospital there are cricket grounds, football and hockey grounds, lawn tennis courts (grass and hard court), croquet grounds, golf course, and bowling greens. Ladies and gentlemen have their own gardens and facilities are provided for handicrafts such as carpentry, &c.

For terms and further particulars apply to the Medical Superintendent (TELEPHONE: No. 2356 and 2357 Northampton), who can be seen in London by appointment.

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FOR THE TREATMENT OF PULMONARY TUBERCULOSIS

Well situated on high ground and surrounded by pines and heather.
All rooms are fitted with electric light, wash basins with hot and cold water, and radiators.
X ray plant. Day and night nursing staff.

RESIDENT MEDICAL SUPERINTENDENT: Dr. H. O. BLANFORD, to whom application for admission can be made

THE OLD MANOR SALISBURY

A Private Hospital for the Care and Treatment of those of both sexes suffering from MENTAL DISORDERS.

Extensive grounds. Detached Villas. Chapel. Garden and Dairy Produce from own farm. Terms very moderate.

CONVALESCENT HOME AT BOURNEMOUTH Detached Villas standing in 12 acres of ornamental grounds, with tennis courts, etc., which Voluntary, Temporary or Certified Patients may visit by arrangement for long or short period.

Illustrated Brochure on application to the Medical Superintendent. The Old Manor, Salisbury. Telephone · Salisbury 2251.

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First opened in 1898 and rebuilt in 1925 on the Cotswold Hills seven miles from Cheltenham, for the treatment of Pulmonary and all other forms of Tuberculosis. Aspect S.S.W., sheltered from North and East, elevation 800 feet. Pure bracing air. SPECIAL TREATMENT by artificial PNEUMOTHORAX (X-Ray controlled), TUBERCULINS, and ULTRA-VIOLET RAYS is available when necessary without extra charge. X-RAY plant, Fully Equipped Dental Department, Electric Light Radiators, hot and cold basins and Wireless in all rooms. Up-to-date drainage. Full day & night Nursing Staff. **Terms 5 to 7½ Guineas a week inclusive.**

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HAYDOCK LODGE,

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For the reception and treatment of PRIVATE PATIENTS of both sexes of the UPPER AND MIDDLE CLASSES suffering from Mental and Nervous Diseases, either voluntarily, temporarily, or under certificate. Patients are classified in separate buildings according to their mental condition. Situated in park and grounds of 400 acres. Self-supported by its own farm and gardens in which patients are encouraged to occupy themselves. Every facility for indoor and outdoor recreation. For terms, prospectus, etc., apply MEDICAL SUPERINTENDENT. *'Phone:* Ashton-in-Makerfield 7311. *Tels. Address:* Street, Ashton-in-Makerfield.

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Telegrams: "PSYCHOLIA, LONDON." 33, PECKHAM RD., LONDON, S.E.5. Telephone: Rodney 4242 (2 lines).

For the treatment of MENTAL DISORDERS.

Also completely detached Villas for Mild Cases, with private suites if desired. Voluntary Patients received. Twenty acres of Grounds, Hard and Grass Tennis Courts, Putting Greens, Bowls, Croquet, Squash Rackets, Recreation Hall with Badminton Court, and all indoor amusements, including Wireless and other Concerts, Occupational Therapy, Calisthenics, and Dancing Classes. X-ray and Actino-therapy, Prolonged Immersion Baths, Operating Theatre, Pathological Laboratory, Dental Surgery, and Ophthalmic Department. Chapel.

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An illustrated Prospectus, giving fees which are strictly moderate, may be obtained upon application to the Secretary.

The Convalescent Branch is Hove Villa, Brighton, and is 200 feet above sea level.

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Telegrams: "Alleviated, London." Telephone: Rodney 2641 and 2642.

The above House, which was established in 1826, is an Institution for the care and treatment of persons suffering from mental diseases and nervous disorders. Certified, Voluntary and Temporary patients are received. Separate houses for treatment and accommodation of special cases adjoin the Institution. There is a seaside branch, Kearsney Court, near Dover, to which patients may be sent for treatment or on holiday. Motor and carriage exercise is provided as required. Patients can avail themselves of a course of physical drill. Tennis Courts. Entertainment, dances, and indoor amusements held throughout the year. Terms from £3 3s. per week. Illustrated prospectus and further particulars can be obtained from the MEDICAL SUPERINTENDENT.

CHEADLE ROYAL HOSPITAL, Cheadle, Cheshire.

This REGISTERED HOSPITAL, with a SEASIDE BRANCH at Colwyn Bay, N. Wales, is for the treatment and care of those of the Upper and Middle Classes suffering from MENTAL AND NERVOUS DISEASES.

The Hospital is governed by a COMMITTEE, appointed by the TRUSTEES of the Manchester Royal Infirmary.

In addition to the Main Buildings there are separate villas. Extensive grounds. Hard and grass tennis courts, cricket and croquet grounds, and a court for badminton. There are also wireless installations. Golf may be had within easy distance. Occupational Therapy.

VOLUNTARY, TEMPORARY AND CERTIFIED PATIENTS received.

The Hospital is nine miles from Manchester, 50 minutes by rail from Liverpool, and 3½ hours from London.

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Home life for Ladies and Gentlemen MENTALLY AFFLICTED. Voluntary Patients received without Certificates. The Retreat is pleasantly situated in extensive grounds on the banks of the River Colne, a part of which celebrated trout stream flows through the Estate. There is every facility for sport and Occupational Therapy. The neighbourhood abounds in pleasant walks, and Fairford, being in the Cotswolds on a dry oolitic soil, is remarkably healthy. Own farm and dairy produce.

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Medical Superintendent, F. BAUER, M.D.

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All Modern Methods of Treatment Available.

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Resident Physicians: **Dennison Pickering, M.D.; S. A. Yaffe, M.D.**

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Functional Nervous Disorders

including Alcoholism and other Addictions

(Certifiable cases are not received)

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New Lodge Clinic was founded in 1921 in order to provide for the scientific investigation and treatment of disease by a "team" of physicians and specialists.

All forms of non-infectious medical cases are admitted, special attention being paid to disorders of digestion and metabolism, arthritis, anæmias, asthma, heart and kidney disease, and functional and organic nervous disorders.

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PAYING PATIENTS RECEIVED

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Terms moderate: Apply to Resident Medical Superintendent

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A PRIVATE HOME for the care and treatment of a limited number of Ladies Mentally Afflicted.

Climate healthy and bracing.

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A PRIVATE HOME for the treatment of Nervous and Mental Disorders in both sexes. Situated in nine acres of Pleasure Grounds.

Voluntary, Temporary, and Certified Patients received.

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A REGISTERED HOSPITAL FOR THE CARE AND TREATMENT OF LADIES AND GENTLEMEN SUFFERING FROM NERVOUS AND MENTAL DISORDERS.

Within two miles of the G.W. Railway and L.M. & S. Railway Stations at Gloucester, the Hospital is easily accessible by rail from London and all parts of the United Kingdom. It is beautifully situated at the foot of the Cotswold Hills, and stands in its own grounds of over 280 acres. Voluntary Boarders of both Sexes are also received for treatment.

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For particulars as to terms, &c., apply to G. W. T. H. FLEMING, M.R.C.S., L.R.C.P., D.P.M., Medical Superintendent.

Telephone: No. 6207 Barnwood.

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Harrogate specialises in the Treatment of—Disorders of the Liver—congestion, cirrhosis, jaundice, cholecystitis, cholelithiasis, and tropical liver. Also in Diseases of the Skin—eczema, psoriasis, the coccal infections of the skin, etc. The Chronic Rheumatic Diseases—Arthritis, Fibrositis, Neuritis; Gout, Hyperpiesis, Mucous Colitis, Functional Disorders of the Heart, Pelvic Disorders of Women, Convalescence from acute illness.

A wide range of Sulphur and Iron waters is available for dealing with the large group of disorders amenable to Spa treatment. Prescribed diets for Spa patients can be obtained at hotels and boarding houses without extra charge. **Complimentary and reduced price facilities for the Cure, Accommodation and Amusements are available for Members of the Medical Profession.**

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"IT'S QUICKER BY RAIL"

Cheap monthly return tickets to Harrogate from all stations. Any train, any day.

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Unrivalled suites of Baths, Turkish and Russian Baths, Aix and Vichy Douches, Massage; Plombières Treatment, Studs Chair, and Electric Installation for Baths and other Medical purposes, Dowsing Radiant Heat, Infra Red Light, Artificial Sunlight, d'Arsonval High Frequency, Diathermy, Nauheim Baths, Soapless Foam Baths, etc. "Certified" Milk from own farm. Large winter garden. Orchestra. Special provision for invalids. Night attendance. Over 60 trained Male and Female Nurses, Masseurs, Attendants, etc.
Resident Physicians: G. C. R. HARBINSON, M.B., B.Ch., B.A.O.(R.U.I.), R. MACLELLAND, M.D., C.M.(Edin.). **TERMS, 13s. to 18s. per day, inclusive of board.**
Illustrated Brochure C.J. and full information on request.
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London County Council.—Accommodation for Male Patients suffering from nervous and mental disorder (voluntary, temporary, or certified) is provided in the private section of Claybury Hospital, Woodford-bridge, Essex. Terms, exclusive of clothing and special luxuries, 44s. 4d. a week for London cases, 49s. a week for others.

For particulars apply to the Medical Superintendent at the Hospital, or to the Chief Officer, Mental Hospitals Department, Shell-Mex House, Strand, W.C.2.

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FARMING and OPEN AIR OCCUPATION for PATIENTS

A few vacancies in 1st and 2nd Class Houses.

FEES:
1st Class (men only) from £3 p.w. upwards.
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NERVOUS & MENTAL AFFECTIONS

Ladies only received

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A High-class Home for the Curative Treatment of Nervous Affections. Voluntary Boarders are also received without certificates.

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Near DARTFORD, KENT.

Ladies and Gentlemen received for treatment under certificates, and without certificates as either VOLUNTARY or TEMPORARY PATIENTS, at a weekly fee of TWO GUINEAS, and upwards.

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For Mental Cases with or without Certificates.
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HOUSE PHYSICIAN required for six months from the 1st April. Salary £110 per annum and a proportion of fees, with board, residence, and laundry. Candidates must be male and single.

Applications, with copies of three testimonials, to be sent in on or before 2nd March to the undersigned.

F. A. LYON, Secretary.

11th February, 1938.

Dreadnought Hospital,
Greenwich, S.E.10. (Seamen's Hospital Society.)

HOUSE SURGEON required for six months from 1st April. Salary £110 per annum and a proportion of fees, with board, residence, and laundry. Candidates must be male and single. Duties include attendance once a week at V.D. Clinic and charge of V.D. beds for which there is a special honorarium of £25.

Applications, with copies of three testimonials, to be sent in on or before 2nd March to the undersigned.

F. A. LYON, Secretary.

11th February, 1938.

Albert Dock Hospital,
Connaught-road, E.16. (Seamen's Hospital Society.)

RESIDENT MEDICAL OFFICER required for six months from 1st April. Salary £110 per annum and a proportion of fees, with board, residence, and laundry. Candidates must be male.

Applications, with copies of three testimonials, to be sent in on or before the 2nd March, to the undersigned.

F. A. LYON, Secretary, Seamen's Hospital Society.

11th February, 1938.

County Council of Middlesex.

THE COUNTY (TUBERCULOSIS) SANATORIUM, HAREFIELD, MIDDLESEX.

JUNIOR RESIDENT ASSISTANT MEDICAL OFFICER.

Applications are invited for the above appointment. Candidates must be registered Medical Practitioners, who have held resident appointments in a General Hospital. Experience in the diagnosis and treatment of tuberculosis will be an additional qualification. Salary £250 per annum, with board, lodging, and laundry.

The officer appointed will work under the direction of the Medical Superintendent, and will devote his whole time to official duties.

The appointment (which does not at present carry any superannuation rights, will be subject to medical examination and is terminable by one month's notice on either side) is for a period of six months in the first instance, and may be extended for an additional six months.

Applications, stating age, qualifications, and experience, together with copies of not more than three recent testimonials, must be received by the undersigned not later than 5th March. Relationship to any member or officer of the Council must be disclosed in the application.

Application forms are not provided. Envelopes must be endorsed "Junior Assistant Medical Officer, Harefield Sanatorium." Canvassing directly or indirectly will be a disqualification.

C. W. RADCLIFFE, "B3"
Clerk of the County Council.

Middlesex Guildhall, Westminster, S.W.1.
9th February, 1938.

The Royal Cancer Hospital (Free)
(Incorporated under Royal Charter),
Fulham-road, London, S.W.3.

Applications are invited for the post of HOUSE SURGEON to commence duties on the 1st April, 1938.

Salary at the rate of £100 per annum. The appointment is for six months and subject to rules, a copy of which may be obtained from the Secretary.

Applications, to be made on a form which will be supplied by the Secretary, together with three (copies only) testimonials, to be sent to the undersigned not later than first post on Friday, 11th March, 1938.

CLEMENT COBBOLD, Secretary.

ROYAL NAVAL MEDICAL SERVICE

Vacancies exist for MEDICAL OFFICERS in the Royal Navy, and applications are invited for entry in April, 1938.

Candidates below the age of 28 years are preferred and they must be registered under the Medical Acts. No examination in professional subjects will be held but candidates will be required to attend for interview by a Selection Board.

Selected candidates will be entered for Service for a period of three years in the first instance, which may be extended to five years at the discretion of the Admiralty.

At the end of three years' service officers may retire with a gratuity of £400, but those who serve for five years will receive £1,000.

At the end of five years' Short Service permanent commissions will be given to selected officers who wish to make the Naval Medical Service their permanent career. Officers transferred to the permanent list will receive a gratuity of £1,000 (less Income Tax).

Opportunities are available for officers on the permanent list to specialise, and ample provision is made for Post-graduate study.

Copies of the regulations for entry and conditions of Service, including rates of pay and allowances, may be obtained from the Medical Director-General of the Navy, Admiralty, S.W.1, and from the Deans of all Medical Schools.

Applications for entry from intending candidates must be received not later than 28th February, 1938.

ROYAL AIR FORCE MEDICAL SERVICE

Applications are invited from Medical Men for appointment to COMMISSIONS in the MEDICAL BRANCH of the ROYAL AIR FORCE for entry in May, 1938.

Candidates must be of pure European descent. They must be British Subjects, the sons of British Subjects and registered under the Medical Acts.

Candidates must normally be under 28 *years of age*, but as a temporary measure consideration will be given to candidates up to 31 years of age and will be selected after interview by a selection board without competitive examination.

Hospital appointments held since qualifying will, under certain conditions, qualify candidates for antedate of commission up to a maximum of one year ; the age on entry may, if necessary, be increased by a period equal to the "antedate."

Selected candidates will be appointed to short service commissions (for 3 years extendible to 5 years) followed by 4 years' service in the Reserve, and will be eligible to be considered for Permanent Commissions after having completed their first year of service and during the whole period of their service on the active list. Officers selected for Permanent Commissions will be allowed to count their service on a short service commission towards retired pay or gratuity to permanent officers. Officers not selected for Permanent Commissions receive gratuity as follows, on transferring to the Reserve :—

On completion of 3 years	£400
,, ,, 5 ,, ...	£1,000

Copies of the regulations for entry and conditions of service, including rates of pay and allowances, also form of application, may be obtained on application from : The Secretary, Air Ministry (D.M.S.), Adastral House, Kingsway, W.C.2.

Completed applications from intending candidates for the vacancies in May, 1938, must be received in the Air Ministry not later than the 15th March, 1938.

Charing Cross Hospital.

SURGICAL REGISTRAR.

The Council invite applications from candidates, who must be registered Medical Practitioners (Male), for the post of Second Surgical Registrar. Honorarium £150 per annum.

A copy of the regulations can be obtained from the undersigned, to whom applications, together with copies of three recent testimonials, must be submitted not later than Monday, 28th February, 1938.

GEORGE J. JONES, Secretary.

Charing Cross Hospital, London, W.C.2.

The Queen's Hospital for Children,

Hackney-road, London, E.2.

HOUSE PHYSICIAN required 1st April, 1938.

EAR, NOSE AND THROAT HOUSE SURGEON required 1st April, 1938.

Six months' appointments. Salary at the rate of £100 per year, with board, lodging, and laundry in each case.

Applications must be made on forms to be obtained from the undersigned, and must be sent in, with copies of not more than four testimonials, on or before the 7th March, 1938.

10th February, 1938. CHARLES H. BESSELL, Secretary.

Royal Northern Hospital,

Holloway, N.7.

Applications are invited for the post of PATHOLOGICAL REGISTRAR. The appointment is for one year with eligibility for re-election. Times of attendance on application.

Honorarium £200 per annum, with lunch and tea provided.

Applications, with copies of testimonials, should be sent by March 4th to the undersigned, from whom the necessary forms of application and rules can be obtained.

GILBERT G. PANTER, Secretary.

West London Hospital,

Hammersmith-road, W.6.
(239 Beds.)

Required, One HOUSE PHYSICIAN and One HOUSE SURGEON. The duties of the House Physician include some work in the Children's Department and the House Surgeon will have some work in the Genito-Urinary Department. These appointments (Males) are tenable for six months from 1st April next, subject to one month's notice on either side. Salary at the rate of £100 a year, with board, lodgings, and laundry allowance. Candidates must be registered under the Medical Act.

Applications (which must be made on printed forms obtained from me) must reach me not later than the first post on Wednesday 16th March. Selected candidates will be required to call upon such Members of the Medical Staff as directed, to be in attendance at the Medical Council Meeting on Friday, 25th March, at 4.30 P.M., and the House Committee Meeting at 5 P.M. the same day, when the appointments will be made.

H. A. MADGE, Secretary.

St. Bartholomew's Hospital.

RESIDENT ASSISTANT PHYSICIAN-ACCOUCHEUR
AND
DEMONSTRATOR OF PRACTICAL MIDWIFERY.

Applications are invited for the post of Resident Assistant Physician-Accoucheur and Demonstrator of Practical Midwifery.

Candidates must be Fellows of the Royal College of Surgeons of England.

The salary attached to the Office is fifty guineas per annum, with residence in the Hospital, plus £1000 per annum payable by the Medical College.

Appointment will be made for one year as from the 1st July, 1938, with eligibility for re-election.

Applications, with testimonials (copies only), should reach the undersigned not later than Saturday, 5th March, 1938.

C. C. CARUS-WILSON, Acting Clerk to the Governors.

14th February, 1938.

Royal National Orthopædic Hospital.

Applications are invited for the posts of HOUSE SURGEONS (two, Male, unmarried), for a period of six months commencing April 1st, renewable for a further period of six months, on the recommendation of the Medical Board. £150 per annum, with full board, quarters, and laundry. Applicants should be registered Medical Practitioners.

Applications, with copies of testimonials, should be sent to the House Governor, 234, Great Portland-street, W.1, not later than March 11th.

The Salvation Army.

THE MOTHERS' HOSPITAL.
Lower Clapton-road, Clapton, E.5.

Applications are invited from Medical Women for the post of JUNIOR RESIDENT MEDICAL OFFICER—vacant April 1st, 1938. Salary £80 per annum, with board, residence, and laundry. The appointment is for six months.

Applications, with testimonials, must be sent to the Secretary on or before Saturday, March 5th, 1938.

FRED HAMMOND (Secretary).

The Royal Cancer Hospital (Free)

(Incorporated under Royal Charter),
Fulham-road, London, S.W.3.

Applications are invited for the post of SECOND ASSISTANT PATHOLOGIST to commence duties on the 4th April, 1938.

Salary £250 per annum. The appointment is for twelve months and subject to rules, a copy of which may be obtained from the Secretary.

Applications, to be made on a form which will be supplied by the Secretary, together with three (copies only) testimonials, to be sent to the Secretary not later than the first post on Friday, 11th March, 1938.

CLEMENT COBBOLD, Secretary.

Royal Hospital, Richmond, Surrey.

Applications are invited for the following posts, which fall vacant on the 1st April, 1938:—

RESIDENT MEDICAL OFFICER (Male). £200 per annum.

SENIOR HOUSE SURGEON (Male). £150 per annum.

JUNIOR HOUSE SURGEON (Male). £100 per annum.

In the case of the two Senior appointments, the Hospital is officially recognised for the surgical practice required before admission to the Final Fellowship Examination of the Royal College of Surgeons of England.

Board, furnished apartments, and laundry. Candidates must be fully qualified, registered, and single. Form of application can be obtained from the undersigned.

G. M. EDEN, Secretary-Superintendent.

Royal Eye Hospital,

St. George's-circus, Southwark, S.E.1.

RESEARCH UNIT.

Applications are invited for the newly created posts of RESEARCH ASSISTANTS (unpaid). Further particulars can be obtained from the Dean.

Applications should be sent to the Dean not later than March 14th.

A. SORSBY, Dean.

The London Lock Hospital,

283, Harrow-road, W.9.

Applications are invited for the post of RESIDENT MEDICAL OFFICER (Male) to all departments.

Candidates must be doubly qualified and duly registered. The appointment is for six months, commencing 14th March. Salary at the rate of £175 per annum, with furnished rooms, full board, and laundry. Preference will be given to candidates having previous obstetric experience.

Applications, enclosing copies (only) of three recent testimonials, must be in the hands of the undersigned by first post on Friday, 4th March, and from whom any further particulars can be obtained.

1st February, 1938. J. F. MORTON, Secretary.

TANCRED'S STUDENTSHIPS

Shortly after Midsummer next the Governors and Trustees propose to elect One Student in Physic at Gonville and Caius College, Cambridge, One Student in Divinity at Christ's College, Cambridge, and One Student in Law at Lincoln's Inn.

Candidates must have been born in England, Scotland, or Wales, and be members of the Church of England, unmarried, and within the ages of seventeen and twenty years for Physic and Divinity, and eighteen and twenty-three for Law.

After 1938 the election will take place about Whitsuntide and the age limit for the Law Studentship (which will be awarded without examination) will be nineteen and twenty-three years.

The annual stipend of each student is £100.

The last day for sending in Petitions this year is May 15th.

Applications, stating *kind* of Studentship and mentioning this paper should be made to the Clerk, Mr. CHOLMELEY, 28, Lincoln's Inn-fields, London, W.C.2.

The Urban District Council of

DAGENHAM.

DEPUTY MEDICAL OFFICER OF HEALTH (Male).

Applications are invited from duly qualified Medical Men for the post of Deputy Medical Officer of Health. Preference will be given to candidates possessing the Diploma of Public Health, or an equivalent qualification.

Commencing salary £600 per annum, rising by annual increments of £25 to £750, subject to superannuation deductions.

The gentleman appointed will be required to devote the whole of his time to the duties of the office, which consist mainly of work in the Maternity and Child Welfare Department, but may also include duty in any section of the health services of the district.

Experience in antenatal and maternity and child welfare work is essential.

Opportunities will be available for acquiring experience in Public Health administration.

Application forms and further particulars obtainable from the Medical Officer of Health at the under-mentioned address, upon receipt of a stamped addressed foolscap envelope.

Closing date 14th March, 1938.

Canvassing disqualifies.

F. W. ALLEN, Clerk of the Council.

Civic Centre, Dagenham, Essex, 15th February, 1938.

Queen Mary's Hospital for the East
END, E.15.

Applications are invited for the post of CLINICAL ASSISTANT to the SKIN DEPARTMENT of the above Hospital.

Applications, accompanied by copies of recent testimonials indicating experience, from candidates who must be duly registered Practitioners, should be lodged with the undersigned not later than Wednesday, the 16th of March, 1938.

Attendance will be required weekly—namely, on Wednesday mornings at 9 A.M. RAPHAEL JACKSON, Major, Secretary.

St. Peter's Hospital for Stone, etc.,
Henrietta-street, Covent Garden, W.C.2.

The office of HOUSE SURGEON will fall vacant on 1st April, 1938, and applications are invited from Male candidates with previous experience in a similar office at a General Hospital. The salary offered is at the rate of £75 per annum, with board, lodging, and laundry.

At the expiration of six months' term of office, and subject to the recommendation of the Medical Committee, the House Surgeon is appointed Resident Surgical Officer for a further similar period. Candidates should therefore be prepared, if successful, to remain at the Hospital for twelve months in all.

Applications, accompanied by copies of testimonials, should be forwarded to reach the undersigned not later than the first post on Tuesday, 8th March, 1938.

BEECHEY ROGERS, Secretary.

The London Homœopathic Hospital
(Incorporated by Royal Charter),
Great Ormond-street, Bloomsbury, W.C.1.
(A General Hospital. 200 Beds.)

APPOINTMENT OF HOUSE PHYSICIAN.

Applications are invited for the appointment of House Physician, vacant April 1st, 1938.

The appointment is one of four Resident Medical posts which occur periodically during the year and is for a period of six months, with salary at the rate of £100 per annum, and board, apartments, and laundry.

Candidates must be legally qualified and registered.

Selected candidates will be required to attend a meeting of the Medical Committee for interview on March 9th.

Applications, stating age, with copies of testimonials, to be sent to the undersigned not later than March 7th.

L. J. KNOWLES, Secretary.

The Princess Elizabeth of York
HOSPITAL FOR CHILDREN, SHADWELL,
LONDON, E.1.
(Formerly East London Hospital for Children.) (135 Beds.)

A HOUSE PHYSICIAN is required on 1st April, 1938, by the above Hospital. Candidates are invited to send in their applications, addressed to the Secretary, not later than the first post on Tuesday, 8th March, 1938, accompanied by copies of not more than three recent testimonials and evidence of having held a responsible hospital appointment. The appointment is for six months. Salary at the rate of £125 per annum, with board, residence and laundry.

Candidates must be properly registered in this country. Forms of application and copies of the rules can be obtained from the Secretary-Superintendent.

Medical Officer required for the Infant
WELFARE CENTRE, GENERAL LYING-IN
HOSPITAL, York-road, Lambeth, S.E.1.

Candidates must be experienced in the care of Children from one to five years of age, and will be required to attend one session per week.

Applications, stating age, qualifications, and experience, with three copies of testimonials to be forwarded by 11th March, 1938, to the Secretary, from whom further particulars can be obtained.

St. John's Hospital, Lewisham, S.E.13.

Applications are invited for the appointment of RESIDENT SURGICAL OFFICER (Male), which becomes vacant on the 1st April next. Candidates should have been qualified not less than two years and should have had one year's experience of hospital appointments. Preference will be given to those holding a senior surgical qualification. The appointment is for twelve months at a remuneration of £200 per annum, with the addition of Resident Staff Panel Fees.

Applications, with copies of testimonials, should reach the undersigned not later than Tuesday, March 8th.

J. C. GILBERT, Secretary-Superintendent.

The National Temperance Hospital,
Hampstead-road, N.W.1.

Applications are invited for the following posts :—

RESIDENT MEDICAL OFFICER (Male). Salary £175 per annum, board, residence, and laundry allowance.

CASUALTY OFFICER (Male). Salary £120 per annum, board, residence, and laundry allowance.

The appointment is for a period of six months in each case, as from April 1st. Preference will be given to those who have held resident posts. Candidates must submit applications, stating qualifications, age, &c., with copies of not more than three testimonials, by Monday, March 7th, addressed to the Secretary.

Guy's Hospital Medical School.

DIPLOMA IN ANÆSTHETICS

A Course of Instruction in preparation for the MAY EXAMINATION for the Diploma in Anæsthetics of the Conjoint Examining Board in England, will commence on Monday, April 25th, provided that there is a minimum number of seven entrants. The course will cover a period of three weeks and will include lectures in Physiology, Anatomy, Pharmacology, Clinical Investigations, and Anæsthetics.

The course will be open to men and women graduates. The fee for the course will be £15 15s.

Further information may be obtained from the Dean, Guy's Hospital Medical School, London Bridge, S.E.1.

Royal Northern Hospital,
Holloway, N.7.

A vacancy occurs for a CLINICAL ASSISTANT in the Ear, Nose, and Throat Department. Applications should be addressed to the Secretary.

Central London Throat, Nose, and Ear
HOSPITAL, Gray's Inn-road, W.C.1.

REGISTRAR AND CLINICAL TUTOR.

Applications are invited for the post of Registrar and Clinical Tutor who will be required to give the whole of his time to the office and to commence duty on 1st April next. The successful candidate should hold one of the higher qualifications in Surgery.

Salary at the rate of £300 per annum, payable jointly by the Hospital and Post-graduation School.

Further particulars of the appointment may be obtained from the undersigned, to whom applications, accompanied by copies of three recent testimonials, should be sent on or before the 7th March next.

JOHN H. YOUNG, Secretary-Superintendent.

Evelina Hospital for Sick Children,
Southwark, S.E.

Applications are invited for the post of FOURTH PHYSICIAN (Male) to the Hospital. Candidates must be Graduates in Medicine, Members of the Royal College of Physicians, London, or shall proceed to obtain that Diploma, and must not be engaged in general practice. The successful candidate will have charge of beds, and will do two Out-patient Clinics per week, and there is an honorarium of fifty guineas attached to the post.

Applications, with copies of not more than four testimonials, should reach the House Governor not later than March 11th.

Candidates will be required to call upon members of the medical staff, whose names, together with the Standing Orders relating to the post, will be forwarded by the House Governor.

W. H. SIDNELL, House Governor.

21st February, 1938.

King Edward Memorial Hospital,
EALING, W.13.
(145 Beds.)

Applications are invited for the post of CASUALTY HOUSE SURGEON (Male) (with which is combined the duty of deputising for the House Physician). Eight months' appointment from the 1st April with possibility of re-election for a further period. Salary £150 per annum, with usual residential emoluments.

Applications, stating age, experience, and qualifications, and accompanied by copies of two recent testimonials, to be sent to the undersigned immediately.

R. A. MICKELWRIGHT, House Governor.

South London Hospital for Women,
Clapham Common, S.W.4.

Applications are invited from Medical Women as
CLINICAL ASSISTANTS
for Gynæcological Out-patients to attend on Monday afternoons; and for Medical Out-patients to attend on Monday afternoons. Applications, with testimonials, to be sent to the Secretary at the Hospital.

London County Council.

Applications invited from Medical Practitioners of at least one year's standing to undermentioned positions. Experience in a resident appointment in a general hospital for at least six months desirable. Married quarters not available.

ASSISTANT MEDICAL OFFICER (Grade I).—Salary £350–£25–£425, with board, lodging, and washing.

(*a*) ST. LUKE'S HOSPITAL, LOWESTOFT, SUFFOLK.—Experience in the treatment of non-pulmonary tuberculosis desirable.

There is no accommodation for a woman officer.

ASSISTANT MEDICAL OFFICER (Grade II).—Salary £250 a year, together with board, lodging, and washing. Appointment for one year only in first instance (renewable for a second year under certain conditions).

(*b*) HIGH WOOD HOSPITAL FOR CHILDREN, BRENTWOOD, ESSEX.—Experience in children essential and in tuberculosis desirable.

Application forms obtainable (stamped addressed foolscap envelope necessary) from Medical Officer of Health, Staff Division 2B, County Hall, S.E.1, returnable by 14th March. Canvassing disqualifies.

Central London Throat, Nose, and Ear
HOSPITAL, Gray's Inn-road, W.C.1.

RESIDENT HOUSE SURGEON (Male).

There is a vacancy for a Third Resident House Surgeon to enter on duty immediately. The appointment will be for a period of ten months; four months as Third House Surgeon, three months as Second House Surgeon, and three months as First House Surgeon. Remuneration at the rate of £75 p.a.

Applications, accompanied by copies of not more than three testimonials, should be sent to the undersigned immediately.

JOHN H. YOUNG, Secretary-Superintendent.

Elizabeth Garrett Anderson Hospital,
Euston-road, N.W.1.

OPHTHALMIC DEPARTMENT—OUT-PATIENTS.

Applications are invited from fully qualified medical Women for the two posts of CLINICAL ASSISTANTS. (One clinic each per week; honorarium £50 per annum.)

Further particulars of the post may be obtained from the undersigned, to whom applications, with copies of three testimonials, should be sent not later than 4th March, 1938.

JEAN R. MURRAY, Secretary.

The Queen's Hospital for Children,
Hackney-road, E.2. (204 Beds.)

The Committee invite applications for the post of ASSISTANT PHYSICIAN, with charge of beds. Candidates must be Fellows or Members of the Royal College of Physicians, London.

Attendance in the Out-patient Department required at present on Saturday morning, but possibly also on another day to be arranged later.

An honorarium to cover travelling expenses will be paid.

Applications, with copies of three recent testimonials, should be sent to the undersigned, from whom further particulars may be obtained.

CHARLES H. BESSELL, Secretary.

21st February, 1938.

Hospital of St. John and St. Elizabeth,
60, Grove End-road, N.W.8.

Applications are invited for the post of ASSISTANT PHYSICIAN at the above Hospital. Candidates must be Members of the Royal College of Physicians (London). Duties include charge of beds. There is no Out-patients' Department. Candidates will be required to call on members of the Medical Committee. Three applications, together with copies of three testimonials, should be submitted on or before Tuesday, March 22nd, 1938, to the undersigned from whom further particulars may be obtained.

F. DUDLEY HOBBS, B.A., Secretary.

Royal Northern Hospital,
Holloway, N.7.

Applications are invited for the following appointment:—

HOUSE PHYSICIAN, vacant 21st March. The appointment is for nine months (three months as Out-patient Medical Officer and Anæsthetist and six months as House Physician).

Salary at the rate of £70 per annum with board, residence, and laundry. Applications with copies of testimonials, should be sent by March 4th to the undersigned from whom forms of application and rules can be obtained.

GILBERT G. PANTER, Secretary.

The Princess Beatrice Hospital,
Earl's-court, London, S.W.5.
(General Hospital. 81 Beds.)

CASUALTY OFFICER AND OBSTETRIC HOUSE SURGEON (Male or Female) required for a period of six months as from April 1st, 1938. Salary at the rate of £110 per annum, with board, residence, and laundry (together with £10 to cover all duties during the six months relating to private patients). Previous resident experience desirable, but not essential.

Full particulars may be obtained from the Secretary-Manager, by whom applications, with copies of three recent testimonials, should be received not later than 9 A.M. Tuesday, 8th March, 1938.

Central Midwives Board.

Applications are invited from registered Medical Practitioners for appointment as SUPERNUMERARY EXAMINERS for the Board's examinations for Pupil-midwives at the following centres:—

LONDON, BRISTOL, LIVERPOOL, MANCHESTER.

Applicants must hold appointments in connexion with Maternity Hospitals or Departments and must have had experience in Teaching Pupil-midwives. Preference will be given to those who are Fellows or Members of the British College of Obstetricians and Gynæcologists.

Applications by letter should be sent by not later than 21st March, 1938, to the Secretary, Central Midwives Board, 23, Great Peter-street, Westminster, London, S.W.1, from whom further information can be obtained.

Victoria Hospital, Burnley.
(150 Beds.)

HOUSE PHYSICIAN (Male).

Applications are invited for the above post, which will become vacant on the 8th March. The duties include the giving of a certain number of anæsthetics. The appointment is for six months in the first instance, at a salary of £150 per annum, together with board, residence, and laundry. At the end of this period reappointment may be applied for, and if granted, the salary for the second six months will be at the rate of £200 per annum.

Applications, giving full details of qualifications and experience, stating nationality, together with copies of recent testimonials, should be addressed to the undersigned forthwith.

J. E. WHEATCROFT, Secretary.

Worcester Royal Infirmary.
(165 Beds.)

Applications are invited for the posts of—

SENIOR HOUSE SURGEON

Salary at the rate of £150 per annum, with board, residence, and laundry.

The Hospital is approved by the Royal College of Surgeons for candidates for the Fellowship.

JUNIOR HOUSE SURGEON.

Salary at the rate of £120 per annum, with board, residence, and laundry.

Applications, stating full particulars as to age, whether married or single, qualifications, &c., and accompanied by copies of three recent testimonials, should be sent to the undersigned by 7th March, 1938.

A. R. WISE, Superintendent Secretary.

Chesterfield and North Derbyshire
ROYAL HOSPITAL.
(220 Surgical and Medical Beds.)

CASUALTY OFFICER AND FRACTURE HOUSE SURGEON.

Applications are invited from fully qualified Men for the above post, to commence as soon as possible.

The appointment is for six months. Salary at the rate of £200 per annum, with board, apartments, and laundry.

The duties include the post of House Surgeon to the Director of the Fracture Clinic, under whose care the whole of the fractures, both in- and out-patients, are treated and deputy to the Resident Surgical Officer.

Candidates for this post should have had special fracture experience.

Applications, stating age, together with copies of three recent testimonials, should be sent to the undersigned as early as possible. M. H. BOONE, Superintendent and Secretary.

8th February, 1938.

Warneford General Hospital,
LEAMINGTON SPA.
(164 Beds.)

Required, a RESIDENT HOUSE PHYSICIAN to commence on 28th March. Six months' appointment. Salary £150 per annum, with board and laundry.

Applications from qualified registered Medical Practitioners, stating age and full particulars, together with three recent testimonials, should be sent to the undersigned by Wednesday, 9th March, 1938.

EDWARD L. WIRGMAN, House Governor and Secretary.

Royal Surrey County Hospital,
GUILDFORD.
(216 Beds.)

Applications are invited for the following resident posts for six months as from 1st April, 1938:—

(1) HOUSE SURGEON (Male) appointment recognised for the F.R.C.S. examination.

(2) HOUSE PHYSICIAN AND CASUALTY OFFICER (Male).

Salary in each case £150 per annum, with board, residence, and laundry.

Applications, stating age and essential particulars, with copies of not more than three testimonials, should reach the Secretary-Superintendent not later than the 8th March.

East Sussex County Council.

SOUTHLANDS HOSPITAL, SHOREHAM-BY-SEA.

RESIDENT ASSISTANT MEDICAL OFFICER.

Applications are invited from fully qualified Male registered Medical Practitioners (unmarried) for the post of Assistant Resident Medical Officer at Southlands Hospital, Shoreham-by-Sea, near Brighton. The appointment is for one year. Salary £300 per annum, with board, residence, and laundry. The Hospital (350 Beds) is a general hospital, under the administration of the East Sussex County Council. The duties of the post will be mainly concerned with surgical cases (including children) and the administration of anæsthetics, but there are also opportunities for medical and obstetrical experience.

Applications should be made on a form obtainable from the undersigned at the County Hall, Lewes, and must be returned to him by Tuesday, the 8th March, 1938.

HUGH J. T. MCILVEEN, Clerk of the County Council.

County Hall, Lewes, February, 1938.

City of Aberdeen.

REGIONAL MEDICAL OFFICER FOR MATERNITY AND CHILD WELFARE.

The Town Council of Aberdeen are prepared to receive applications for the appointment of Regional Medical Officer for Maternity and Child Welfare for the City of Aberdeen and for the Counties of Aberdeen and Kincardine.

Applicants must be Registered Medical Practitioners and must hold a Diploma in Public Health or equivalent qualification. They must also possess qualifications enabling them to act as Supervisor of Midwives in terms of the Maternity Services (Scotland) Act, 1937.

The successful applicant will act as Assistant to the present Medical Officer for Maternity and Child Welfare until the retiral of that Official on 30th June next. On appointment, the salary will be £850 per annum and will be increased to £900 per annum on the retiral referred to, thereafter rising to £1000 per annum by annual increments of £50, with placing on the scale according to qualifications and experience. The office is an established post under the Local Government and Other Officers' Superannuation Act, 1922, and the successful candidate will be required to pass a medical examination. Applications will be entertained from candidates up to the age of forty-eight years.

Applications, stating age, qualifications, and experience, together with one copy of three recent testimonials, should be lodged with the undersigned not later than 14th March, 1938, from whom also can be obtained details regarding duties, terms of service, &c.

G. S. FRASER, Town Clerk.

Town House, Aberdeen, 14th February, 1938.

The Children's Hospital.

KING EDWARD VII MEMORIAL
BIRMINGHAM, 16.

RESIDENT MEDICAL OFFICER.

Applications are invited for the above post. Candidates must be qualified and registered and have held a responsible Resident appointment at a teaching hospital. The salary is at the rate of £175 per annum, with board, residence, and laundry. The appointment is tenable for one year, and the Officer is eligible for re-election for a second year.

Candidates should forward their applications, with certificate of registration, and any credentials which they may desire to offer, to the undersigned, on or before 5th March, 1938.

Owing to the resignation of the present holder of the office, the duties will commence forthwith.

HAROLD F. SHRIMPTON, House Governor.

14th February, 1938.

Bristol Eye Hospital.

80 Beds. (12 Private Patients.)
1937: 1017 In-patients. 17,794 Out-patients.

Applications are invited for the post of JUNIOR HOUSE SURGEON. Salary £100 per annum. Senior post available after six months. Vacant 1st April, 1938.

Suitable experience for D.O.M.S. Applications, stating age and qualifications, &c., with three recent testimonials, to reach the undersigned by March 11th.

D. M. BABER, Secretary and House Governor.

Lancashire County Council.

BIDDULPH GRANGE ORTHOPÆDIC HOSPITAL.

Applications are invited from duly qualified and registered Medical Practitioners for the following posts at the above Hospital, which contains 88 beds:—

SENIOR HOUSE SURGEON. (Duties to commence 1st May.)

Salary £250 per annum, together with board, residence, and laundry. Candidates must have had experience in a General Hospital. Preference will be given to candidates who have had orthopædic experience.

JUNIOR HOUSE SURGEON. (Duties to commence 1st April.)

Salary £200 per annum, together with board, residence, and laundry. Preference will be given to candidates who have held resident hospital appointments, and who are competent anæsthetists.

Both appointments will be for a period of six months in the first instance, and for a further six months at the option of the Council, but will not be renewable after that time.

Applications, with copies of two recent testimonials, should be sent, not later than the 3rd March, 1938, to Dr. F. Hall, School Medical and Child Welfare Department, County Offices, Preston.

GEORGE ETHERTON, Clerk of the County Council.

County Offices, Preston, February, 1938.

Hertford County Hospital.

(169 Beds.)

Applications are invited for the post of HOUSE SURGEON (Male). (Three Residents.) Salary £200 per annum, with board, residence, and laundry. The appointment is for six months in the first instance.

Applications, with three recent testimonials, should be sent to the undersigned, not later than Tuesday, 1st March, 1938. PERCY G. BROOKS, Secretary.

Leicester Royal Infirmary.

(500 Beds.)

VACANCIES FOR APRIL 1ST, 1938.

HOUSE SURGEON.

Salary £125 per annum. Applicants must have held a resident Hospital post or had similar experience of Hospital work.

HOUSE PHYSICIAN.

Salary £125 per annum. Applicants must have held a resident Hospital post or had similar experience of Hospital work.

JUNIOR CASUALTY OFFICER.

Junior Casualty Officer. Salary £100 per annum.

Applications, giving full details, to be forwarded to the SECRETARY not later than 28th February, 1938, together with copies of three testimonials.

Appointments will be made on the 9th March, 1938.

11th February, 1938.

Worcester County and City Mental

HOSPITAL, POWICK, Near WORCESTER.

Applications are invited for the post of ASSISTANT MEDICAL OFFICER. Applicants must be Male, single, under thirty-five years of age, and duly qualified in medicine and surgery. Commencing salary £350, rising by annual increments of £25 to a maximum salary of £450 per annum, together with furnished apartments, board, laundry, and attendance. A further £50 per annum will be paid if the selected candidate holds or obtains a Diploma in Psychological Medicine. Experience in Anæsthetics will be a recommendation. The appointment is subject to the provisions of the Asylums Officers' Superannuation Act, 1909.

Applications, stating age, and full particulars of qualifications and experience, accompanied by copies of three recent testimonials, to be forwarded to the Medical Superintendent not later than Saturday, 5th March, 1938.

City of Birmingham.

MATERNITY AND CHILD WELFARE DEPARTMENT.

TEMPORARY MEDICAL OFFICER.

A Temporary Medical Officer is required for a period of six months from April 1st. The work includes attendance at antenatal and children's clinics.

Applicants should have had considerable experience in work with mothers and children, including resident posts in a maternity hospital and in a children's hospital. The salary offered is £10 per week.

The appointment cannot be terminated within the period named except for health reasons.

Applications endorsed "Temporary Medical Officer for Maternity and Child Welfare" and accompanied by copies of three recent testimonials, to be made on a form obtainable from the Medical Officer of Health, Council House, Birmingham, 3, and returned to him on or before March 5th.

Doncaster Royal Infirmary.

(185 Beds.)

Applications are invited for the post of FRACTURE HOUSE SURGEON, who will be required to carry out his duties under the direction of an Honorary Orthopædic Surgeon. The resident Medical Staff of the Hospital numbers six and this appointment will be considered the senior. Salary paid will be £200 minimum, or according to experience.

Applications, accompanied by copies of three recent testimonials, to be forwarded to the undersigned.

R. LANCASTER, Secretary-Superintendent.

Royal Eye Hospital, Pevensey-road,

EASTBOURNE.

NON-RESIDENT HOUSE SURGEON required to commence duty forthwith. Salary £100 per annum and allowance in lieu of board-residence £175 per annum.

Applications, stating age, qualifications, and Ophthalmic experience, together with recent testimonials, should reach the undersigned as soon as possible.

Before engagement candidates have to be interviewed by appointment by the Hon. Surgeon, from whom further particulars could be obtained in person.

H. BYGRAVE, Hon. Secretary.

West Kent General Hospital

(Incorporated),
MAIDSTONE. (136 Beds.)

Applications are invited for the post of HOUSE SURGEON, who must be a Male of British nationality, and unmarried.

Salary at the rate of £175 per annum, with board, apartments, and laundry.

Candidates must possess registered qualifications.

Applications, stating qualifications and experience, together with copies of testimonials, should be sent to the undersigned on or before 1st March, 1938.

The successful candidate will be required to take up residence on 10th March, 1938.

EDWARD J. GREGG, House Governor and Secretary.

Preston Hall Sanatorium,
near MAIDSTONE, KENT. (300 Beds.)

Applications are invited for the post of ASSISTANT MEDICAL OFFICER (Male).

Salary at the rate of £250 per annum, with board, residence, and laundry.

Candidates, who must be unmarried, are requested to forward their applications as soon as possible to the Medical Director, stating age, qualifications, &c., together with copies of not more than three testimonials.

City of Birmingham.

COLESHILL HALL.

DEPUTY MEDICAL SUPERINTENDENT.

Coleshill Hall, a colony for Mental Defectives of all ages and both sexes, consists of two divisions, five miles apart, situated at Coleshill and Marston Green respectively, each about ten miles from Birmingham.

Applications are invited for the whole-time appointment of Deputy Medical Superintendent for the Colony, aged forty to forty-five, with experience in institutional administration. Salary according to experience (Scale £500–£700 per annum), subject to satisfactory service, plus emoluments consisting of unfurnished house, fuel, light, and laundry valued for superannuation purposes at £200 per annum. An additional £50 per annum will be granted if holding a recognised qualification in psychological medicine. All fees, allowances, and remunerations received other than the foregoing must be repaid to the City Council.

The candidate appointed will be required to pass satisfactorily a medical examination and to be subject to the provisions of the Asylums Officers' Superannuation Act, 1909, as modified by the Asylums and Certified Institutions (Officers' Pensions) Act, 1918. The appointment will be subject to one month's notice on either side.

Application forms may be obtained from the Medical Superintendent, Coleshill Hall, Coleshill, near Birmingham, and must be returned to him not later than Monday, the 7th March, 1938. F. H. C. WILTSHIRE, Town Clerk.

Council House, Birmingham, 1.

City of Manchester.

BOOTH HALL HOSPITAL FOR CHILDREN.
(760 Beds.)

The Public Health Committee invites applications from registered Medical Men for the post of RESIDENT ASSISTANT MEDICAL OFFICER at the above-named Hospital.

The salary for the appointment is £200 per annum, with board, residence, and laundry in addition, subject to the Manchester Corporation conditions of service.

The appointment will be made in the first instance for a period of six months, renewable for a further six months, but not renewable thereafter.

Full information and forms of application may be obtained from the Medical Officer of Health, Sunlight House, Quay-street, Manchester, 3, and applications for the post must be received by him not later than March 5th, 1938.

F. E. WARBRECK HOWELL, Town Clerk.

Town Hall, Manchester, 2, 2nd February, 1938.

Royal Devon and Exeter Hospital,
Exeter. (280 Beds.)

RESIDENT SURGICAL OFFICER.
HOUSE SURGEON.
HOUSE SURGEON to the Ear, Nose, and Throat Department.

The above resident posts (Male only) will become vacant on April 1st, 1938.

The appointment of Resident Surgical Officer (salary £250) is for one year; the other appointments (salary £150) for six months, with eligibility for re-election.

Candidates must possess registered qualifications.

Applications, stating age, qualifications, and copies of three recent testimonials, should be sent to the undersigned on or before Tuesday, 1st March, 1938.

S. S. COLE, Secretary and Manager.

City of Bradford.

MUNICIPAL GENERAL HOSPITAL, ST. LUKE'S.

HOUSE PHYSICIANS and HOUSE SURGEONS required. Salary in each case £150 per annum plus board and lodgings.

These appointments are for six months, renewable for a further period of six months.

Application forms may be obtained from the Medical Officer of Health, Town Hall, Bradford, and should be returned to the undersigned not later than the 4th March, 1938.

Town Hall, Bradford. N. L. FLEMING, Town Clerk.

Leigh Infirmary, Lancashire.

Wanted, JUNIOR HOUSE SURGEON, immediately. Salary £150 per annum. The appointment is for six months with eligibility for re-election. Must be good Anæsthetist. Exceptional opportunities for Surgery.

Applications to be addressed to Mr. J. A. SMITH, Secretary, 5, Silk-street, Leigh, Lancashire.

Northampton General Hospital.
(351 Beds.)

There will be the following seven vacancies for Resident Medical Officers:—

On 1st March: One HOUSE SURGEON to THE EAR, NOSE AND THROAT DEPARTMENT.

On 1st April: One HOUSE PHYSICIAN.
Three HOUSE SURGEONS.
Two CASUALTY OFFICERS.

Salaries will be at the rate of £150 per annum, with board, residence, and laundry. Candidates, who must be duly qualified and registered, must be Males, and of British nationality.

The successful candidates will be elected for a period of six months (House Surgeon to the Ear, Nose, and Throat Department seven months), and will be eligible for re-election for a further period of six months.

Applications, stating age, qualifications, &c., with copies of three testimonials, must reach the undersigned not later than the first post on Wednesday, 2nd March, 1938.

GORDON S. STURTRIDGE, M.B., Superintendent.

14th February, 1938.

County of Dorset.

MEDICAL OFFICER OF HEALTH
FOR
SHAFTESBURY BOROUGH, SHAFTESBURY, STURMINSTER AND SHERBORNE RURAL DISTRICTS AND SHERBORNE URBAN DISTRICT
AND
ASSISTANT COUNTY MEDICAL OFFICER.

Applications are invited from Medical Practitioners not exceeding forty years of age for the joint whole-time appointment of Assistant County Medical Officer and Medical Officer of Health for the Shaftesbury Borough, Shaftesbury, Sturminster and Sherborne Rural Districts, and the Sherborne Urban District (population about 31,000). The appointment as Medical Officer of Health will, in the first instance, be in respect of the first three-named districts only and in respect of the last two-named districts when vacancies occur.

The salary for the combined appointment will be £800 per annum, together with a travelling allowance of £100 per annum, an office allowance of £50 per annum, and necessary out-of-pocket expenses according to the scales now in force.

Applicants must be qualified in accordance with Article 8 of the Sanitary Officers' (Outside London) Regulations, 1935, and hold the Diploma in Public Health or similar qualification.

The candidate appointed will, as regards his duties as Assistant County Medical Officer, come under the direction of the County Medical Officer of Health and will be required to perform such duties as may be from time to time prescribed. As regards his duties as Medical Officer of Health, he will be subject to the control and direction of the District Councils concerned.

The post will be designated under the Local Government and Other Officers' Superannuation Act, 1922, and the successful candidate will be required to pass a medical examination. He will also be required to reside within the area for which he is Medical Officer of Health and to take up his appointment on the 1st July, 1938.

Candidates must apply on the prescribed form, to be obtained from the undersigned, by whom applications, accompanied by copies of not more than three recent testimonials, must be received not later than Saturday, the 12th March, 1938.

Canvassing in any form will be a disqualification.

C. P. BRUTTON, Clerk of the County Council.

County Offices, Dorchester, 15th February, 1938.

Monmouthshire County Council.

ASSISTANT MEDICAL OFFICERS (Female)
(One Permanent and One Temporary).

The Council invite applications from duly qualified and registered Medical Practitioners (Females) not exceeding thirty-five years of age, holding a Diploma in Public Health and State Medicine, for the appointment of Assistant Medical Officer, to undertake mainly the Medical Inspection and Treatment of School-children and, in addition, Maternity and Child Welfare work, and the Investigation of Sanitary Conditions generally.

Experience in the correction of errors of refraction and the administration of anæsthetics will be essential.

There are two appointments, one Permanent and one Temporary.

The salary for the Permanent post will be £500 per annum, rising by annual increments of £25 to £750, and for the Temporary appointment £500 per annnm, with third-class rail fares and subsistence allowance according to the Council's scale.

The successful candidate will be required to act under the direction and supervision of the County Medical Officer; to devote whole time to the service of the County Council, and to reside in such place as the Council may determine.

The Permanent post will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922.

A schedule of the duties to be performed, together with conditions of appointment and a form of application, can be obtained from the undersigned, to whom applications, accompanied by copies of not more than three recent testimonials, are to be sent by the 7th March, 1938.

D. ROCYN JONES, County Medical Officer.

The County Hall, Newport, Mon.
14th February, 1938.

Kent County Ophthalmic and Aural
HOSPITAL, MAIDSTONE.
(109 Beds.)

Applications are invited for the post of HOUSE SURGEON to the EAR, NOSE, AND THROAT DEPARTMENT, which post will be vacant on 1st April. Candidates must be duly qualified and registered Medical Practitioners, single and of British birth and nationality, and should have had some experience in the treatment of diseases of the Ear, Nose, and Throat. The post offers facilities for wide clinical experience and operative work, and the Hospital is recognised by the Examining Board for the D.L.O. The appointment is for six months, but may be renewed for a second six months. Salary at the rate of £250 per annum, with board, residence, and laundry.

Applications, stating age, together with copies of not more than three testimonials, should be sent to the undersigned by Saturday, 12th March.

JOHN W. STRICKLAND, Secretary.

The Robert Jones and Agnes Hunt
ORTHOPÆDIC HOSPITAL, OSWESTRY.
(Beds: Adults 220, Children 130.)

HOUSE SURGEON required immediately. Appointment for six months, with possibility of extension. Salary at the rate of £200 per annum, with board, residence, and laundry. Two weeks' holiday for each six months' service.

Applications, stating age, qualifications, and experience, with copies of three recent testimonials, to be received not later than 28th February, 1938.

J. C. MENZIES, Secretary-Superintendent.

Princess Elizabeth Orthopædic
HOSPITAL, EXETER.

Applications are invited for the post of RESIDENT HOUSE SURGEON. Salary £150 per annum, with board, residence, and laundry.

The appointment is for six months commencing April, with the option of extension for a period not exceeding a further six months.

Applications, stating age and experience with copies of three recent testimonials, to be sent to:—

P. MELHUISH, Secretary.

Newark General Hospital.
(66 Beds.)

Applications are invited for the post of RESIDENT HOUSE SURGEON (Male). Salary at the rate of £175 per annum, with board, residence, and laundry. The appointment is for six months, and may be renewed for a further term of six months. Duties to commence on or about April 1st, 1938.

Applications, stating age and hospital experience, together with copies of three recent testimonials, should be forwarded to the undersigned immediately.

B. C. DION, Joint Secretary.

The Royal Cripples Hospital,
BIRMINGHAM.
(306 Beds and large Out-patient Department.)

Applications are invited for the post of RESIDENT HOUSE SURGEON (Male) vacant April 1st next. Salary £200 per annum, plus car allowance. The appointment, which is for a period of six months, is renewable on the discretion of the Medical Board, and is terminable by one month's notice on either side.

Candidates must be unmarried, and preference will be given to those with previous experience in General and Orthopædic Hospitals.

Applications, with copies of three recent testimonials, to be sent on or before March 5th, 1938, to the General Secretary, Royal Cripples Hospital, 80, Broad-street, Birmingham, 15.

Derbyshire County Council.

ASSISTANT COUNTY MEDICAL OFFICER OF HEALTH.

Applications are invited for the post of Assistant County Medical Officer of Health. Candidates must possess a qualification in Public Health, have had both practical and administrative experience of the medical inspection of school-children, the organisation of school clinics and infant welfare centres, and have a sound knowledge of the provisions of the Midwives Acts and the rules of the Central Midwives Board.

The Officer appointed will be required to devote the whole of his time to the duties of the office and to work under the direction of the County Medical Officer.

The salary will be £700, rising by annual increments of £25 to £800 a year, and the appointment will be subject to the approval of the Minister of Health and the Board of Education.

The appointment will be a designated post under the Local Government and Other Officers' Superannuation Act, and the successful candidate will be required to pass a medical examination.

The appointment will be determinable by three months' notice on either side.

Applications, stating age, qualifications, and previous experience, together with copies of not more than three recent testimonials, must be received by the undersigned not later than 15th March, 1938. Application forms are not provided.

W. M. ASH, County Medical Officer of Health.

County Offices, Derby, 18th February, 1938.

The Royal Eastern Counties'
INSTITUTION FOR THE MENTALLY DEFECTIVE, COLCHESTER.

ASSISTANT MEDICAL OFFICER (Male).

Applications are invited for the above post, from unmarried Male Medical Practitioners not over thirty-six years of age. Total beds over 1700.

The medical man appointed will be stationed at the new Extension, Turner Village, and will be required gradually to assume responsibility for administrative work connected with that extension, which has at present over 400 beds. For that reason the commencing salary has been fixed at £400 per annum, together with furnished apartments, board, laundry, and attendance. No deductions. Previous specialisation in Mental Deficiency is not essential.

A Research Department, with a Medical Director and other Staff, working under the Medical Research Council and the Rockefeller Foundation, is attached to the Institution. New Laboratories are completed and there is every facility for research work.

Apply before 9th March, giving age, nationality, full details of qualifications, and copies of testimonials, to the Medical Superintendent, Royal Institution, Colchester.

HIS MAJESTY'S COLONIAL SERVICE

COLONIAL MEDICAL SERVICE

A vacancy exists for a GOVERNMENT PATHOLOGIST IN BRITISH GUIANA.

Candidates must be British subjects preferably under thirty-five years of age, and must possess a medical qualification registrable in the United Kingdom. They must have had from one and a half to two years' experience in a bacteriological laboratory attached to a University College or Teaching Hospital or to a General Hospital with at least 150 beds, and must be proficient in the preparation of media, vaccines, and biochemical reagent solutions.

SALARY. £800 a year. Private practice is not allowed, but the officer will be permitted to make bacteriological and other examinations for medical practitioners or private individuals, fees for which average £60 a year.

DUTIES.—The selected candidate will be in charge of the Bacteriological and Pathological Departments of the Government Medical Service.

FREE PASSAGES on first appointment for officer, his wife and family not exceeding five persons in all.

FREE QUARTERS are not provided. The appointment is pensionable, subject to two years' probationary service.

Further particulars and forms of application may be obtained from the Director of Recruitment (Colonial Service), 8, Buckingham-gate, London, S.W.1.

HIS MAJESTY'S COLONIAL SERVICE

COLONIAL MEDICAL SERVICE

A vacancy exists for a MEDICAL OFFICER for Service in Gibraltar. Candidates must be British subjects of European parentage, under thirty-five years of age, and must possess a medical qualification registrable in the United Kingdom and preferably be able to perform major operations, if required. Salary £600 a year, rising by annual increments of £30 to £720 a year. Private consulting practice is allowed. Free quarters and passages (on first appointment and when taking leave) are provided. The appointment is pensionable.

Further information regarding this vacancy and other existing vacancies in the Colonial Medical Service, and forms of application, may be obtained from the Director of Recruitment (Colonial Service), 8, Buckingham-gate, London, S.W.1.

Derbyshire County Council.

BRETBY HALL ORTHOPÆDIC HOSPITAL.
(147 Beds.)

JUNIOR RESIDENT ASSISTANT MEDICAL OFFICER.

Applications are invited for the post of Junior Resident Assistant Medical Officer at the above Institution. Preference will be given to candidates who have held resident Hospital appointments, and who are competent anæsthetists. Orthopædic experience is not essential, but will be considered an additional qualification. Married quarters are not provided.

Salary at the rate of £350 per annum, rising by annual increments of £25 to £450 per annum, with board, residence, and laundry.

The successful candidate will devote the whole of his time to the duties of his office.

The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and the person appointed will be required to pass a medical examination.

Application forms may be obtained from the undersigned, to whom they must be returned, together with copies of not more than three recent testimonials, on or before the 16th March, 1938.

W. M. ASH, County Medical Officer.

New County Offices, Derby, Feb. 18th, 1938.

Royal Isle of Wight County Hospital,
RYDE.

JUNIOR HOUSE SURGEON (Woman) wanted for April 1st., unmarried. Salary at the rate of £120 yearly, with board, residence, and laundry.

Apply, stating age and nationality, with copies of testimonials, to the Secretary, before Tuesday, March 8th.

A. S. GORDON, Secretary.

Brighton County Borough Mental
HOSPITAL, HAYWARDS HEATH, SUSSEX.

Appointment of SECOND ASSISTANT MEDICAL OFFICER. Applications are invited for the above post. Salary £500 per annum, increasing by £50 per annum on approved service to £600 per annum with an addition of £50 per annum for holding or becoming the holder of the D.P.M.

The age of the candidate should not exceed 35 years. A cash allowance of £75 per annum will be given until a house is provided during which time a charge will be made for meals taken in the Hospital when on duty. A similar allowance will be made to an Officer desirous of having full board and lodging in the Hospital, but in that event the charge will be at the rate of £100 per annum.

The appointment will be subject to the provisions of the Asylums Officers' Superannuation Act, 1909.

Applications, with copies (not originals) of three recent testimonials, stating General Hospital, Mental Hospital, and Laboratory experience, to be sent to the Medical Superintendent and to be received by Thursday, March 3rd, 1938.

City of Manchester.
CRUMPSALL HOSPITAL. 1543 Beds.

The Public Health Committee invites applications from registered Medical Men for the post of RESIDENT ASSISTANT MEDICAL OFFICER at the above-named hospital.

The salary for the appointment is £200 per annum, with board, residence, and laundry in addition subject to the Manchester Corporation conditions of service.

The appointment will be made in the first instance for a period of six months, renewable for a further six months, but not renewable thereafter.

Full information and forms of application may be obtained from the Medical Officer of Health, Sunlight House, Quay-street, Manchester, 3, and applications for the post must be received by him not later than 8th March, 1938.

F. E. WARBRECK HOWELL, Town Clerk.

Town Hall, Manchester, 2, 18th February, 1938.

Public Health Department,
CITY OF CHESTER.

CITY HOSPITAL.

JUNIOR RESIDENT MEDICAL OFFICER required for the above general hospital.

Salary will be £200 per annum, with full residential emoluments. The appointment will be for one year.

Applications, stating age, qualifications, and previous experience, together with copies of three recent testimonials, should be sent to the Medical Officer of Health, Town Hall, Chester, by the 7th March, 1938.

J. H. DICKSON, Town Clerk.

Bradford Children's Hospital.

HOUSE PHYSICIAN (Lady) required April 1st. Fully qualified. Salary £150, with board, residence, and laundry.

Applications, with recent testimonials, and stating age, not later than March 16th to:—

J. W. LONGLEY, Secretary-Superintendent.

Swansea General and Eye Hospital.
(336 Beds.)

Applications are invited for the appointment of whole-time ASSISTANT PATHOLOGIST (Male or Female), non-resident. Salary £500, rising to £600, per annum.

Candidates must be graduates in medicine of a recognised British University or members of a College of Physicians of the British Isles.

Duties to commence 4th April, 1938.

Applications, stating age, nationality, qualifications, and experience, together with copies of three recent testimonials, to be forwarded to the undersigned on or before 28th February.

O. C. HOWELLS, Secretary-Superintendent.

The Prince of Wales's Hospital,
Greenbank-road, PLYMOUTH.
(Formerly South Devon and East Cornwall Hospital.)
(264 Beds.)

Applications are invited for the post of HOUSE SURGEON. Salary £120 per annum, with board, residence, and laundry.

Appointment is tenable for six months and is subject to renewal. Duties to commence 22nd March.

The Hospital is officially recognised for the surgical practice required before admission to the Final Fellowship Examination of the Royal College of Surgeons of England.

Applicants must be registered under the Medical Acts. Applications, stating age and qualifications, with copies of three recent testimonials, to reach the undersigned by 11th March.

ARTHUR R. CASH, Gen. Supt. Secretary.

Ancoats Hospital, Manchester, 4.

CASUALTY OFFICER, twelve months' appointment. Applicants who have passed the Primary Fellowship Examination of one of the Royal Colleges of Surgeons will be preferred.

Salary £175 per annum, with board, apartments, washing, &c. The successful applicant will do duty for the Resident Surgical Officer at alternate week-ends and other scheduled times.

HOUSE SURGEON (General) required. Appointment for six months from 1st April. Salary £100 per annum, with board, apartments, washing, &c.

Applications for the above posts, stating age, qualifications, experience, and full particulars to be forwarded to the undersigned on or before Wednesday, 9th March, together with copies of three recent testimonials.

By order of the Board,
HERBERT J. DAFFORNE, General Supt. and Secretary.

Royal Liverpool United Hospital,
DAVID LEWIS NORTHERN HOSPITAL.
(University of Liverpool Clinical School.)

The Committee of the David Lewis Northern Hospital, Liverpool, invites applications for the post of CASUALTY OFFICER (Male) tenable for six months from 1st April next.

Salary at the rate of £120 per annum. Board, residence, and laundry are provided.

Applications, accompanied by copies of three recent testimonials, should be addressed to the undersigned immediately.

THORNBURROW GIBSON, Superintendent.

21st February, 1938.

Coventry and Warwickshire Hospital.
(347 Beds.)

Applications are invited for the post of HOUSE SURGEON to the EAR, NOSE, AND THROAT DEPARTMENT, and also a HOUSE SURGEON to the OPHTHALMIC DEPARTMENT.

The salaries for each post are at the rate of £150 per annum, together with board, quarters, and laundry.

These appointments are recognised for the D.L.O. and the D.O.M.S. respectively.

Applications, stating qualifications, and accompanied by copies of recent testimonials, should be addressed to the House Governor and Secretary, Coventry and Warwickshire Hospital, Coventry.

The Guest Hospital, Dudley.
(General Hospital. 135 Beds.)

The Resident Staff consists of a Resident Surgical Officer and two House Surgeons.

Two HOUSE SURGEONS (Male) required. One to enter upon his duties on April 1st and the other to commence on May 2nd. Salary at the rate of £100–£130, according to experience, with furnished apartments, board, and laundry. Candidates must be fully qualified and registered. Duties include Medical Surgical, Ear, Nose, and Throat, Ophthalmic, Orthopædic, Gynæcological work, &c.

Applications, stating age, qualifications, and experience, accompanied by copies of testimonials, to be sent to the undersigned.

H. RAYMOND HURST,
House Governor and Secretary.

22nd February, 1938.

Derbyshire Royal Infirmary, Derby.
(General Hospital. 362 Beds.)

Applications are invited for the post of HOUSE SURGEON FOR EAR, THROAT AND NOSE DEPARTMENT, who must be a male of British nationality and unmarried.

Candidates must be qualified and registered under the Medical Acts. Salary will be £150 per annum, with apartments, board, &c.

Applications, with copies of testimonials, to be sent to the undersigned.

State earliest date duties could be commenced.

ARTHUR TAYLOR, Superintendent and Secretary.

The Children's Hospital, Sheffield.
(140 Beds.)

Applications are invited for the post of HOUSE SURGEON, vacant 1st April, 1938.

The appointment is for six months. Salary £100 per annum, with board, residence, and laundry. Candidates (Male and unmarried) who must possess registered qualifications, should forward applications stating age, nationality, &c., together with copies of three recent testimonials, to the undersigned.

T. H. G. GARTLAND, Superintendent and Secretary.

Rochdale Infirmary and Dispensary.
(110 Beds. Three Residents.)

The Board of Management invites applications for the appointment of HOUSE PHYSICIAN (Male). The salary attached to the appointment is at the rate of £150 per annum, with board, residence, and laundry. The duties include work in the Out-patient, Aural, Ophthalmic, &c., Departments as well as in the wards. The Hospital covers a large industrial area, and affords excellent opportunity for experience.

Applications, stating, age, nationality, &c., with three recent testimonials, to be sent to the Secretary, Rochdale Infirmary.

W. WYNNE, Secretary.

Infirmary Office, Rochdale.

Jenny Lind Hospital for Children, NORWICH.

Applications are invited for the post of RESIDENT MEDICAL OFFICER. Salary £120, with board, residence, and laundry.

Candidates (Male or Female) who must possess registered qualifications, should forward applications, stating age, experience, &c., together with copies of testimonials, to the undersigned, not later than the first post on Wednesday, 9th March, 1938.

FRANK INCH, Secretary.

25th February, 1938.

Warrington Infirmary and Dispensary.

The post of THIRD RESIDENT will fall vacant on 1st April, 1938, and applications are invited from Male candidates, who must be duly qualified Medical Practitioners and unmarried. Salary at the rate of £150 per annum, with board, lodging, and laundry.

At the expiration of six months' term of office and subject to the recommendation of the Medical Board the Third Resident is appointed Second Resident (Salary £175 per annum) and then Senior Resident (Salary £250 per annum) for similar periods. Candidates should therefore be prepared, if successful, to remain at the Hospital for eighteen months in all.

Applications, stating age and qualifications, accompanied by copies of three recent testimonials, should be sent in not later than first post on Tuesday, 8th March. Chosen candidates will be interviewed on Friday, 11th March, 1938.

By order,
HENRY L. BOOT, Superintendent and Secretary.

22nd February, 1938.

Salford Royal Hospital.
(256 Beds.)

Applications are invited from duly registered candidates (Male) for:—

HOUSE PHYSICIAN.
HOUSE SURGEONS (Three).
CASUALTY HOUSE SURGEON.

for six months from 1st April. Salary £125 per annum.

Forms of applications, obtainable from the undersigned, should be delivered on or before 8th March.

By order of the Board,
H. B. SHELSWELL,
General Superintendent and Secretary.

City and County of Bristol.

ASSISTANT MEDICAL OFFICER OF HEALTH FOR AIR-RAID PRECAUTIONS.

The Corporation of Bristol invite applications for the post of Assistant Medical Officer of Health for Air-raid Precautions.

The gentleman appointed must have received training in Air-raid Precautions and have knowledge of anti-gas work. He will be required to devote the whole of his time to his duties and will not be allowed to engage in private practice. He will work under the direction of the Medical Officer of Health.

The appointment will be temporary in the first instance and will be subject to two months' notice on either side, and the selected candidate will be required to pass a medical examination.

The salary will be £500 to £700 per annum, according to experience.

Applications must be made on a prescribed form, which may be obtained from the undersigned, and must be delivered at the Council House, Bristol, 1, not later than 12th March, 1938. Envelopes should be endorsed "Assistant Medical Officer of Health." Canvassing of members of the Council, either directly or indirectly, will disqualify.

JOSIAH GREEN, Town Clerk.

The Council House, Bristol, 1, February, 1938.

Royal Asylum, Montrose.

Applications are invited for the post of THIRD ASSISTANT MEDICAL OFFICER (Male). Salary commencing at £300 per annum, from which there are no deductions; with board, apartments, and laundry. Opportunity will be given to take the course for the Diploma of Psychiatry.

Applications should be sent to the Medical Superintendent before 7th March.

SUDAN MEDICAL SERVICE

One MEDICAL INSPECTOR is required for the Sudan Medical Service to proceed to the Sudan at the end of June, 1938.

The selected candidate will be required to take the Course at the London School of Tropical Medicine, from April 4th, 1938, to June 24th, 1938. Fees and a subsistence allowance provided by the Sudan Government.

Candidates must be British-born, single, under thirty years of age, and have held a Resident appointment in a large General Hospital. Pay in the Sudan commences at £E720 a year, rising to £E1200 after thirteen years' service. On confirmation of his appointment the selected candidate will be eligible for pensionable service.

Applications (in writing only), with copies of recent testimonials, should be made to Dr. HODSON, 69, Harley-street, W.1.

Burton-on-Trent General Infirmary.

Applications are invited for the post of SENIOR HOUSE SURGEON (Male). Salary at the rate of £200 per annum, with board, residence, and laundry.

Applications, stating age, qualifications, experience, and nationality, together with copies of testimonials, to be sent to—

E. W. THORNLEY, Secretary.

The General Infirmary, Burton-on-Trent.

Pembroke County War Memorial HOSPITAL,
HAVERFORDWEST, PEMBROKESHIRE.
(64 Beds to be increased to 100 Beds.)

RESIDENT HOUSE SURGEON.

Applications are invited for the post of Resident House Surgeon, Male (unmarried), from duly qualified registered Medical Practitioners, with previous resident experience, to commence on October 1st, 1938. Salary £200 per annum, with residence (Private Bungalow), board, and laundry.

Applications, stating age, and accompanied by copies of not more than three recent testimonials, to be sent to the undersigned at the above address not later than first post Monday, 7th March, 1938.

F. W. BARNETT, House Governor and Secretary.

Surrey County Council.

ASSISTANT MEDICAL OFFICER.

Applications are invited for the appointment of an Assistant Medical Officer (Male). Applicants must possess a qualification in Public Health, and have had experience in the Medical Inspection of School-children and in Maternity and Child Welfare work.

The officer appointed will be required to undertake such other Public Health duties as may be allocated to him. He will be on the staff of the County Medical Officer of Health, must reside in the County of Surrey, and devote his whole time to the work. Salary £600 per annum, rising by annual increments of £20 to £700 per annum. Travelling expenses in accordance with the Council's scale will be allowed.

The appointment will be subject to the approval of the Ministry of Health and of the Board of Education, to the successful candidate passing a medical examination, to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and to the Staffing Regulations of the Council, which provide, inter alia, that appointments may be determined at any time by three months' notice.

Applications, stating age, qualifications, and experience, together with copies of three recent testimonials, should be made on the prescribed forms and sent to the County Medical Officer of Health, County Hall, Kingston-upon-Thames, from whom copies of the application form may be obtained and to whom any inquiries relating to the appointment should be addressed.

Last day for receipt of applications, Wednesday, 9th March, 1938.

Canvassing, directly or indirectly, will disqualify.

DUDLEY AUKLAND, Clerk of the County Council.

County Hall, Kingston-upon-Thames, 21st February, 1938.

King George Hospital, Ilford (near London). (207 Beds.)

RESIDENT ANÆSTHETIST and HOUSE PHYSICIAN (Male) required, for six months from 1st April. Salary £150 per annum.

Forms of application may be obtained from the undersigned, to whom they should be returned, duly completed, not later than 14th March.

G AUSTIN HEPWORTH, Secretary and Superintendent.

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ASSOCIATION, 85, Eccleston-square, S.W.1 (Telephone: Victoria 2722), supplies qualified Dispensers, Book-keepers, Laboratory Assistants, Sanitary Assistants, Male Nurses, Mental and Special Treatment Orderlies, Dental Clerk Orderlies, Porters, Caretakers, &c., without charge to respective employers.

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Wanted.—Young Lady to take charge of old-established Practice in Surrey. Live in. Salary and share in receipts. Prospects.—Address, No. 371, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

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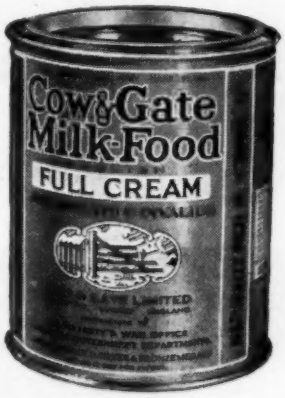

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